



TEST REPORT

Report Number: R13658158-E1

Applicant : Ademco Inc.
2 Corporate Center Dr.
Melville, NY, 11747, USA

Model : SIXCTA
HVIN: RF6CT

FCC ID : CFS8DLRF6C

IC : 573F-RF6CT

EUT Description : Temperature Sensor

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2020
ISED RSS-247 ISSUE 2: 2017
ISED RSS-GEN ISSUE 5 + Amendment 1: 2019

Date Of Issue:
2022-04-05

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2021-01-28	Initial Issue	Cristian Melara
V2	2022-03-28	Addressed TCB Feedback: -Updated Test dates -Updated Antenna Gains -Clarified WC Orientation Setup -Added Max Power section. -Added Duty Cycle Clarification -Corrected Radiated Data.	Noah Bennett
V3	2022-04-05	-Updated ANT2 Cond. Power data	Noah Bennett

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Ademco Inc.
2 Corporate Center Dr.
Melville, NY, 11747, USA

EUT DESCRIPTION: Temperature sensor

MODEL: SIXCTA
HVIN: RF6CT

SERIAL NUMBER: 08439027

SAMPLE RECEIPT DATE: 2020-01-04

DATE TESTED: 2021-01-07 to 2021-01-11; 2022-04-05

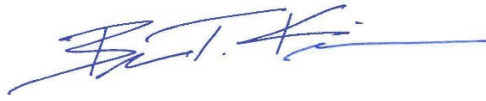
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C: 2020	Complies
ISED RSS-247 Issue 2: 2017	Complies
ISED RSS-GEN Issue 5 + Amendment 1: 2019	Complies

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. government.

Approved & Released For
UL LLC. By:



Brian Kiewra
Project Engineer
Consumer Technology Division
UL LLC

Prepared By:



Cristian Melara
Engineer
Consumer Technology Division
UL LLC

2. TEST RESULTS SUMMARY

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	Per ANSI C63.10, Section 12.2.
See Comment	RSS-GEN 6.7	26dB BW/99% OBW	See comment	See Note 1.
15.407 (e)	RSS-247 6.2.4.1	6 dB BW		
15.407 (a) (1-4), (h) (1)	RSS-247 6.2	Output Power		
15.407 (a) (1-3, 5)	RSS-247 6.2	PSD		
15.209, 15.205, 15.407 (b)	RSS-GEN 8.9, 8.10, RSS-247 6.2	Radiated Emissions	Compliant	None

Note 1: This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer. This report covers radiated emissions for a C2PC due to a non-radio circuitry change. The remaining test results can be found in the original filing report which is the responsibility of the manufacturer to provide upon request.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15: 2020, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, RSS-GEN Issue 5+ Amendment 1: 2019, and RSS-247 Issue 2: 2017.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, North Carolina, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, North Carolina, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

12 Laboratory Dr.	2800 Suite Perimeter Park Dr.
ISED Site Code: 2180C	
☐ Chamber A RTP	☐ North Chamber
☐ Chamber C RTP	☒ South Chamber

The above test sites and facilities are covered under FCC Test Firm Registration # 703469. Chambers above are covered under Industry Canada company address and respective code.

UL LLC (RTP) (CABID US00067) is accredited by NVLAP, Laboratory Code 200246-0

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
Occupied Channel Bandwidth	1.22%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
RF output power, radiated (SAC) < 180 MHz	6.18 dB
RF output power, radiated (SAC) >=180 MHz	3.23 dB
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	6.01 dB
Conducted Emissions (0.150-30MHz) - LISN	3.40 dB
Temperature	0.57°C
Humidity	3.39%
DC Supply voltages	1.70%
Time	3.39%

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable

Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) +

LISN Insertion Loss.

$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a battery powered RF6 temperature sensor that contains a 2.4GHz IEEE 802.15.4 radio.

6.2. MAXIMUM OUTPUT POWER

Spot check power measurements were completed and the EUT has a maximum output power as below:

Antenna	Zigbee Channel	Avg Power	Peak Power
1	2405	19.39	19.50
	2445	17.73	17.87
	2475	16.5	16.65
2	2405	18.47	18.60
	2445	17.19	17.33
	2475	15.64	15.83

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two PIFA antennas for diversity, with Antenna 1 gain of 2.6dBi and Antenna 2 gain to 4.8dBi.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was V5.1.3.

The test utility software version used during testing was v0.2.0.

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz and above 18GHz were performed with the EUT set to transmit at the channel and antenna with highest output power as worst-case scenario, which has been determined based up the original filing module report.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle and high channels.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that X orientation was worst-case orientation for both Antenna 1 and Antenna 2; therefore, all final radiated testing was performed with the EUT in X orientation.

7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer/Brand	Model	Serial Number	FCC ID
None				

I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
None						

SETUP DIAGRAMS

Please refer to R13658158-EP1 for setup diagrams

8. MEASUREMENT METHOD

Duty Cycle: ANSI C63.10 Subclause -11.6

Emissions non-restricted frequency bands: ANSI C63.10 Subclause -11.11

Emissions restricted frequency bands: ANSI C63.10 Subclause -11.12.1 and 6.10.5

General Radiated Spurious Emissions: ANSI C63.10-2013 Sections 6.3-6.6

KDB 558074 D01 15.247 Meas Guidance v05r02 FAQ #3

9. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Wireless Conducted Measurement Equipment

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Conducted Room 2				
T177 (PRE0079253)	Spectrum Analyzer	Agilent Technologies	E4446A	2020-04-30	2021-04-30
SOFTEMI	Antenna Port Software	UL	Version 2020.12.3	NA	NA

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - South Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	0.009-30MHz	(Loop Ant.)			
AT0079	Active Loop Antenna	ETS-Lindgren	6502	2020-08-20	2021-08-20
	30-1000 MHz				
AT0081	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2019-11-20	2020-11-20
	1-18 GHz				
AT0067	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2020-04-28	2021-04-28
	Gain-Loss Chains				
S-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2020-07-10	2021-07-10
S-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2020-07-10	2021-07-10
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2020-07-06	2021-07-06
S-SAC04	Gain-loss string: 18-40GHz	Various	Various	2020-07-07	2021-07-07
	Receiver & Software				
SA0025	Spectrum Analyzer	Agilent	N9030A	2020-03-17	2021-03-17
SOFTEMI	EMI Software	UL	Version 9.5 (2020-08-18)		

10. ANTENNA PORT TEST RESULTS

10.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

10.1.1. Antenna 1

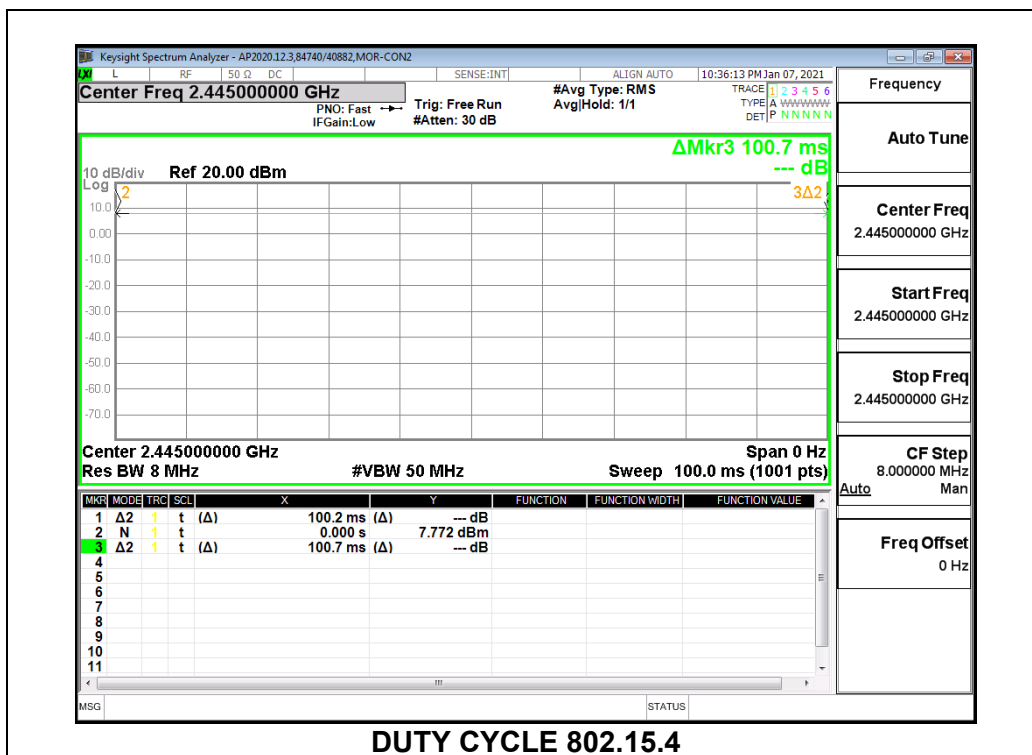
ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.15.4	100.2	100.7	0.995	99.50%	0.00	0.010

*Note: Duty Cycle of 99.50% was obtained via a Factory Test Mode installed on the device for testing purposes only. The Real-Life Duty Cycle will be protocol limited to 6.976% from the original filing per KDB 558074 D01 15.247 Meas Guidance v05r02 Q&A#3. Option A was used. to derive the duty cycle correction factor used in this report. A duty cycle correction factor of -23.1dB was applied to radiated PK data to obtain an average measurement. See calculation below.

Duty Cycle Correction Factor = $20 \cdot \log(\text{DC}) = 20 \cdot \log(0.06976) = -23.1\text{dB}$

DUTY CYCLE PLOTS



10.1.2. Antenna 2

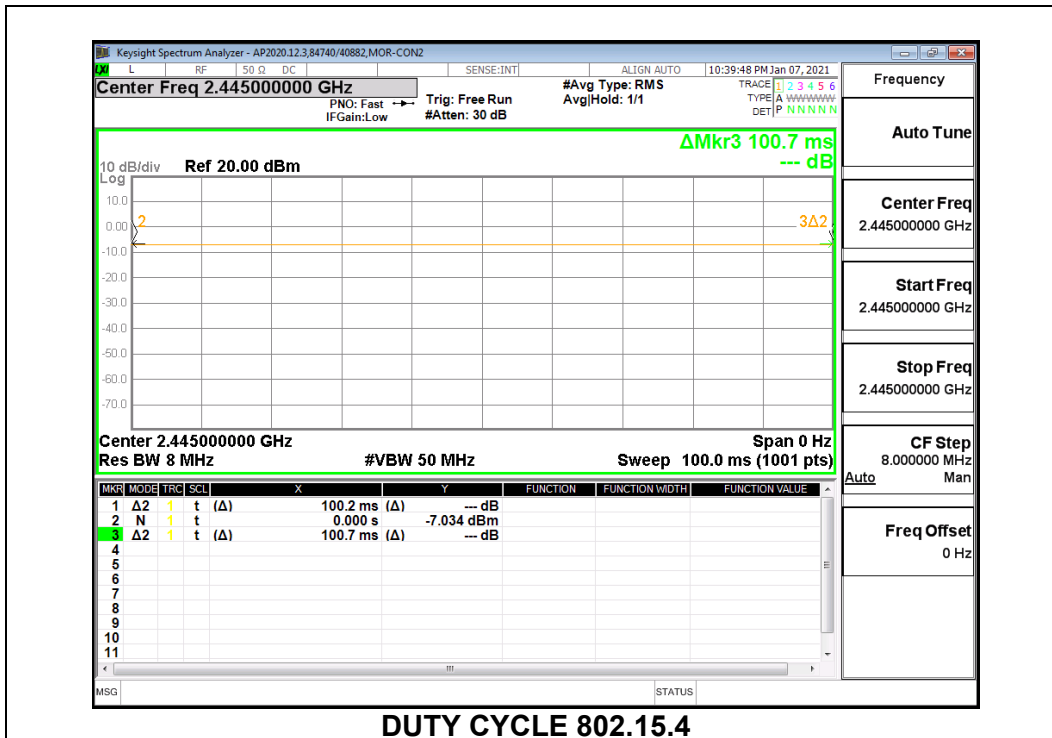
ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.15.4	100.2	100.7	0.995	99.50%	0.00	0.010

*Note: Duty Cycle of 99.50% was obtained via a Factory Test Mode installed on the device for testing purposes only. The Real-Life Duty Cycle will be protocol limited to 6.976% from the original filing per KDB 558074 D01 15.247 Meas Guidance v05r02 Q&A#3. Option A was used. to derive the duty cycle correction factor used in this report. A duty cycle correction factor of -23.1dB was applied to radiated PK data to obtain an average measurement. See calculation below.

Duty Cycle Correction Factor = $20 \cdot \log(\text{DC}) = 20 \cdot \log(0.06976) = -23.1\text{dB}$

DUTY CYCLE PLOTS



11. RADIATED TEST RESULTS

11.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for linear voltage average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

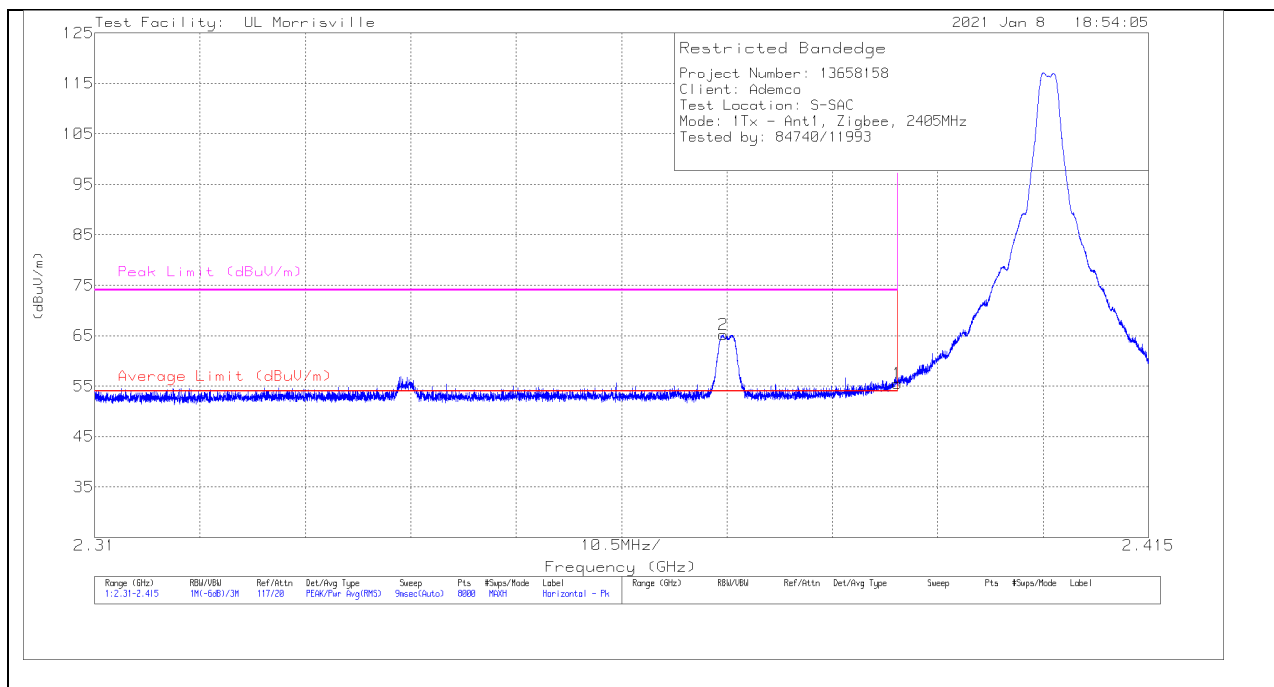
OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

11.2. TRANSMITTER ABOVE 1 GHz

11.2.1. Antenna 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



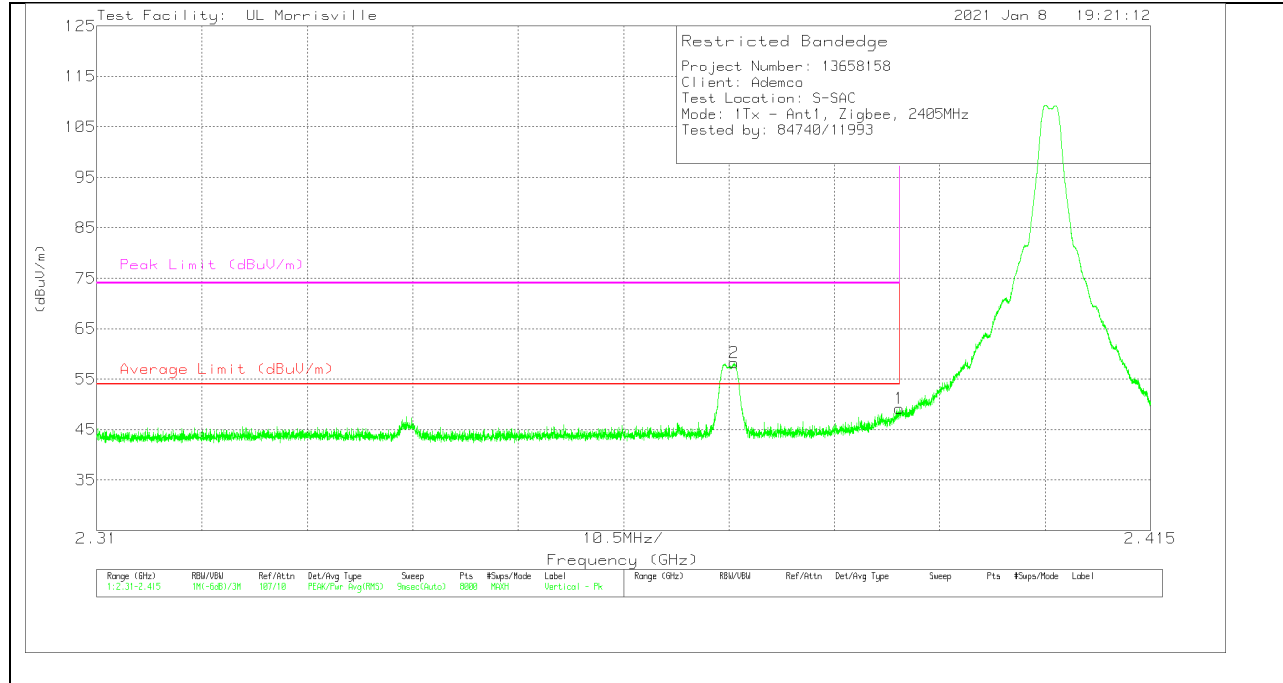
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	47.42	Pk	32.1	-24	0	55.52	-	-	74	-18.48	5	113	H
	*** 2.39	47.42	Pk	32.1	-24	-23.1	32.42	54	-21.58	-	-	5	113	H
2	*** 2.37264	56.88	Pk	32.2	-23.9	0	65.18	-	-	74	-8.82	5	113	H
	*** 2.37264	56.88	Pk	32.2	-23.9	-23.1	42.08	54	-11.92	-	-	5	113	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	41.02	Pk	32.1	-24	0	49.12	-	-	74	-24.88	335	350	V
	* ** 2.39	41.02	Pk	32.1	-24	-23.1	26.02	54	-27.98	-	-	335	350	V
2	* ** 2.3735	49.96	Pk	32.2	-23.9	0	58.26	-	-	74	-15.74	335	350	V
	* ** 2.3735	49.96	Pk	32.2	-23.9	-23.1	35.16	54	-18.84	-	-	335	350	V

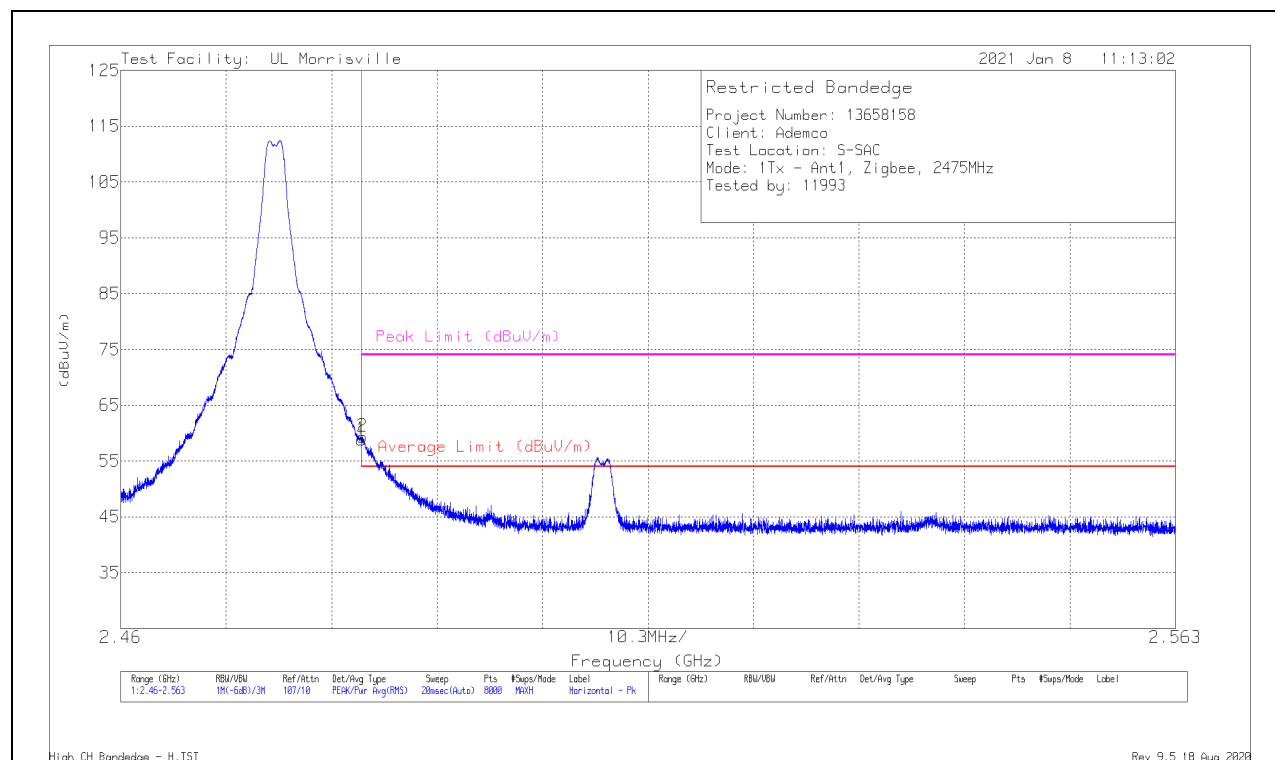
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



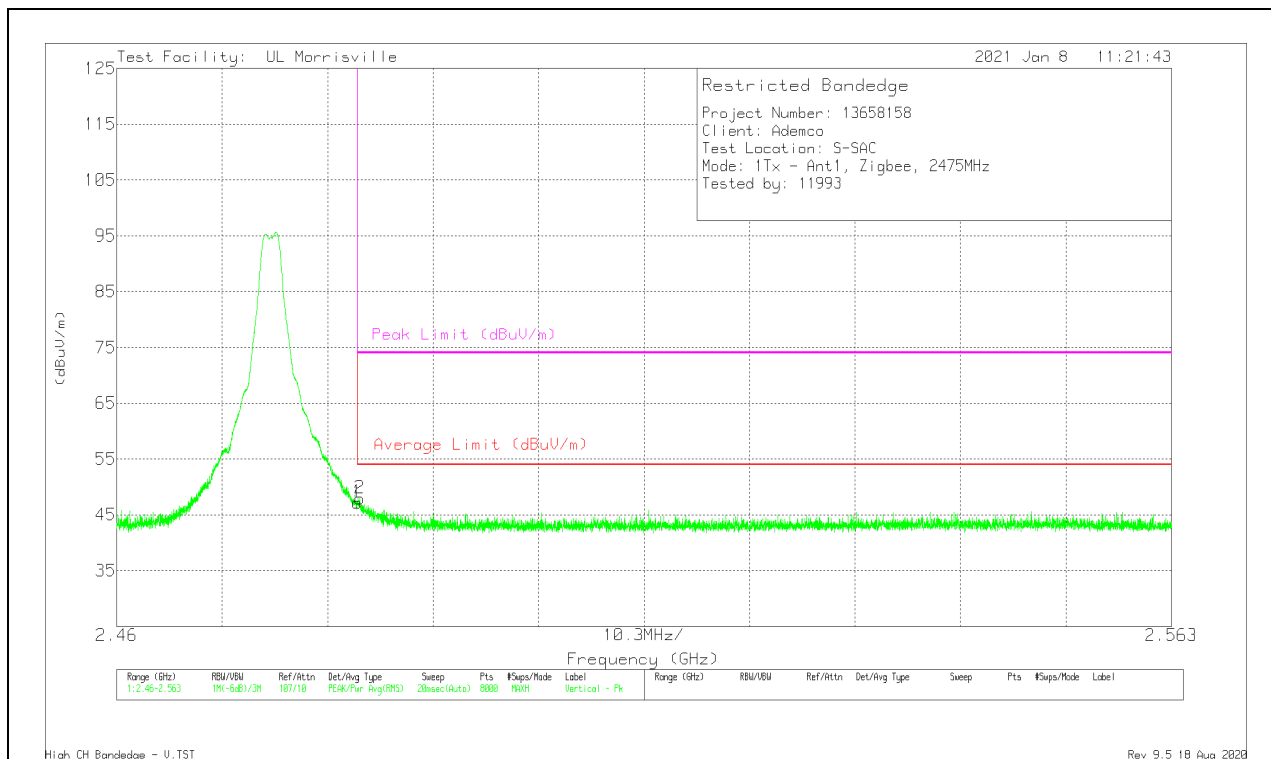
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.4835	50.9	Pk	32.4	-24.4	0	58.9	-	-	74	-15.1	349	149	H
	* ** 2.4835	50.9	Pk	32.4	-24.4	-23.1	35.8	54	-18.2	-	-	349	149	H
2	* ** 2.4836	51.38	Pk	32.4	-24.4	0	59.38	-	-	74	-14.62	349	149	H
	* ** 2.4836	51.38	Pk	32.4	-24.4	-23.1	36.28	54	-17.72	-	-	349	149	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.4835	39.23	Pk	32.4	-24.4	0	47.23	-	-	74	-26.77	22	362	V
	* ** 2.4835	39.23	Pk	32.4	-24.4	-23.1	24.13	54	-29.87	-	-	22	362	V
2	* ** 2.48372	39.95	Pk	32.4	-24.4	0	47.95	-	-	74	-26.05	22	362	V
	* ** 2.48372	39.95	Pk	32.4	-24.4	-23.1	24.85	54	-29.15	-	-	22	362	V

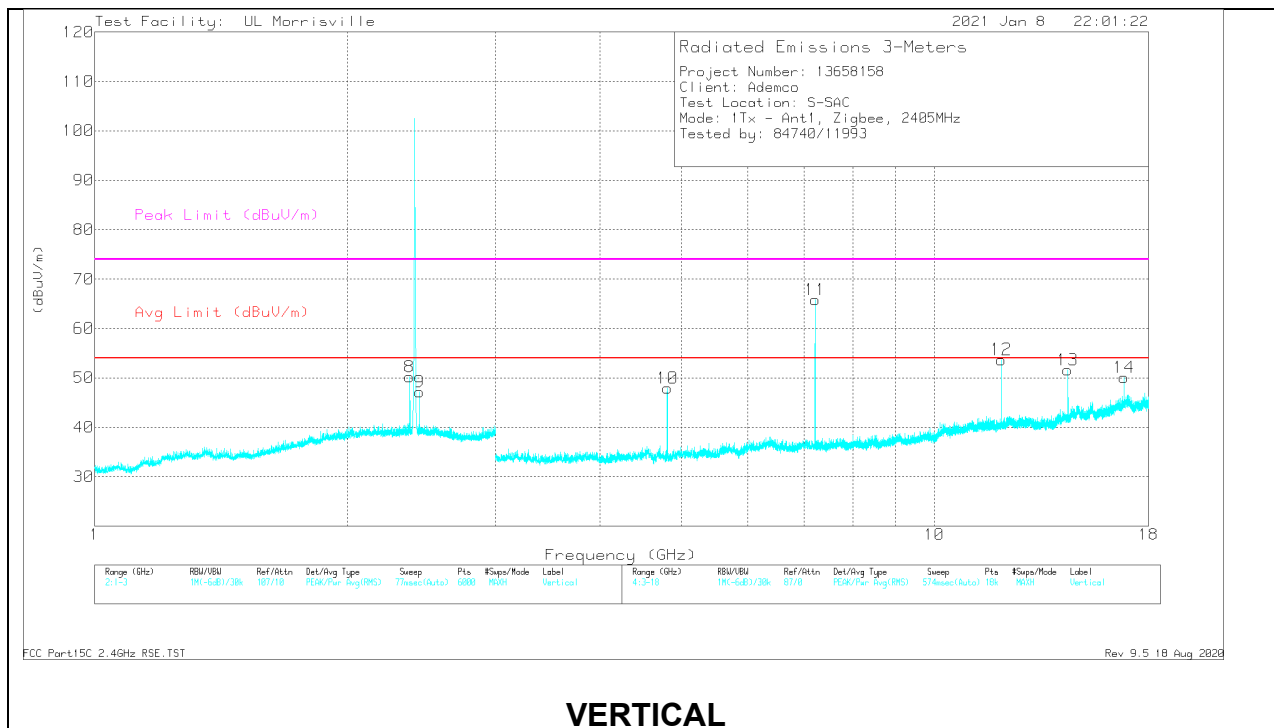
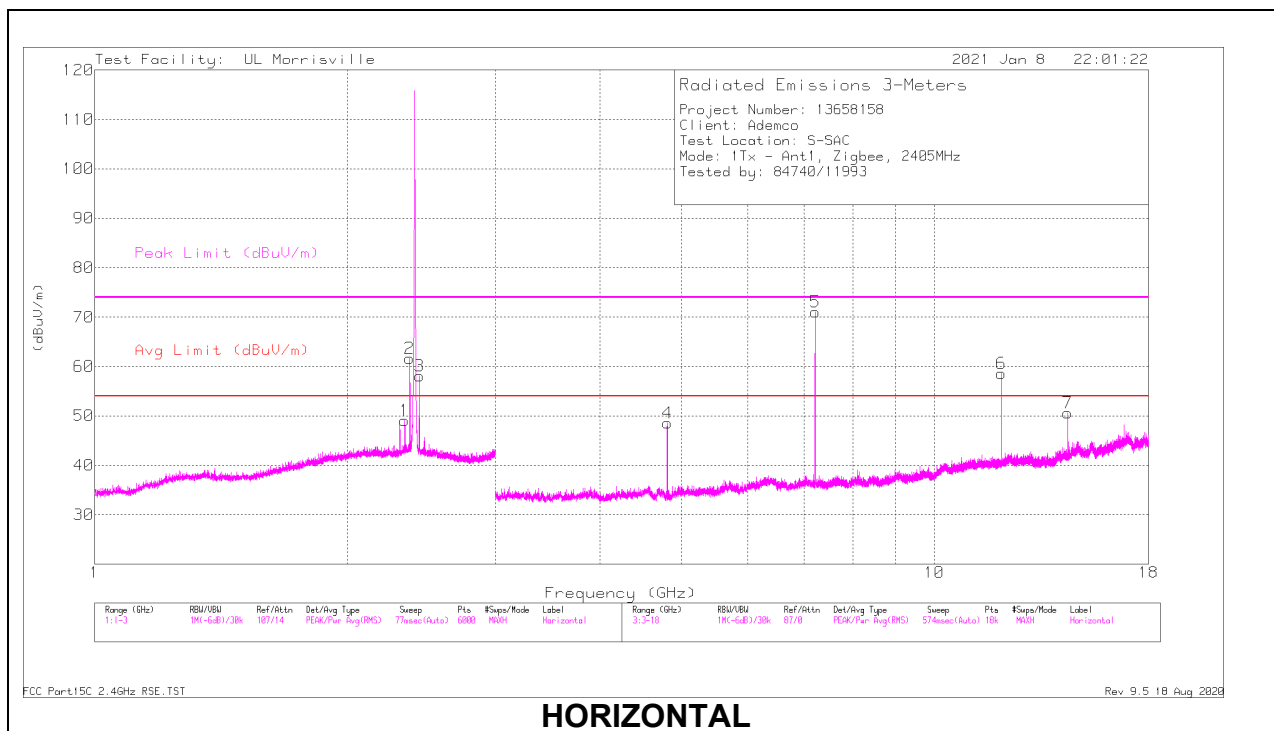
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

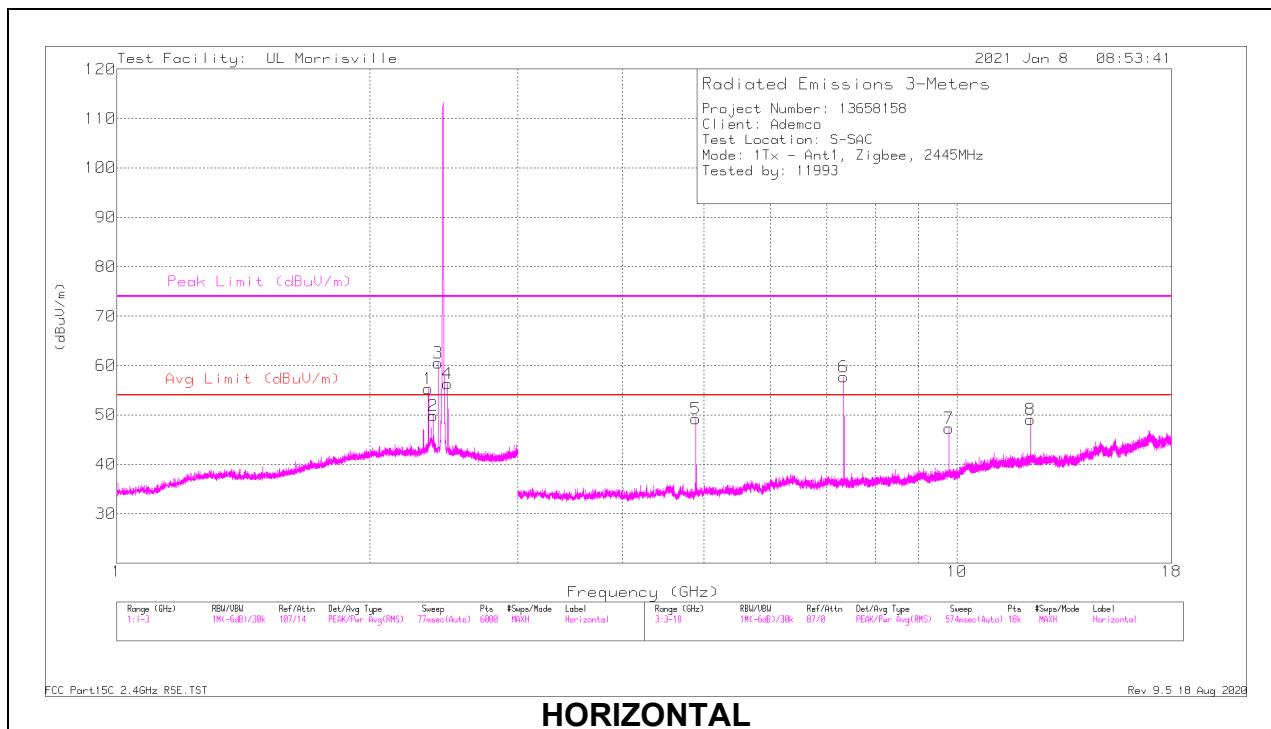
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.34159	45.68	PK2	32.2	-23.8	0	54.08	-	-	74	-19.92	13	216	H
	** 2.34159	45.68	PK2	32.2	-23.8	-23.1	30.98	54	-23.02	-	-	13	216	H
2	** 2.37351	56.64	PK2	32.2	-23.9	0	64.94	-	-	74	-9.06	7	142	H
	** 2.37351	56.64	PK2	32.2	-23.9	-23.1	41.84	54	-12.16	-	-	7	142	H
8	** 2.37258	50.75	PK2	32.2	-23.9	0	59.05	-	-	74	-14.95	312	350	V
	** 2.37258	50.75	PK2	32.2	-23.9	-23.1	35.95	54	-18.05	-	-	312	350	V
4	** 4.81089	48.58	PK2	34	-30.8	0	51.78	-	-	74	-22.22	57	111	H
	** 4.81089	48.58	PK2	34	-30.8	-23.1	28.68	54	-25.32	-	-	57	111	H
6	** 12.02752	47.76	PK2	38.7	-24	0	62.46	-	-	74	-11.54	106	101	H
	** 12.02752	47.76	PK2	38.7	-24	-23.1	39.36	54	-14.64	-	-	106	101	H
10	** 4.81096	49.04	PK2	34	-30.8	0	52.24	-	-	74	-21.76	318	115	V
	** 4.81096	49.04	PK2	34	-30.8	-23.1	29.14	54	-24.86	-	-	318	115	V
12	** 12.02754	44.44	PK2	38.7	-24	0	59.14	-	-	74	-14.86	143	108	V
	** 12.02754	44.44	PK2	38.7	-24	-23.1	36.04	54	-17.96	-	-	143	108	V
9	2.43691	38.95	Pk	32.4	-24.2	0	47.15	-	-	-	-	0-360	101	V
3	2.43724	49.87	Pk	32.4	-24.2	0	58.07	-	-	-	-	0-360	101	H
5	7.21607	63.32	Pk	35.6	-27.9	0	71.02	-	-	-	-	0-360	101	H
11	7.21607	58.12	Pk	35.6	-27.9	0	65.82	-	-	-	-	0-360	101	V
13	14.42731	37.06	Pk	39.4	-24.9	0	51.56	-	-	-	-	0-360	101	V
7	14.43314	36.05	Pk	39.4	-24.9	0	50.55	-	-	-	-	0-360	101	H
14	16.83911	31.62	Pk	41.9	-23.4	0	50.12	-	-	-	-	0-360	101	V

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

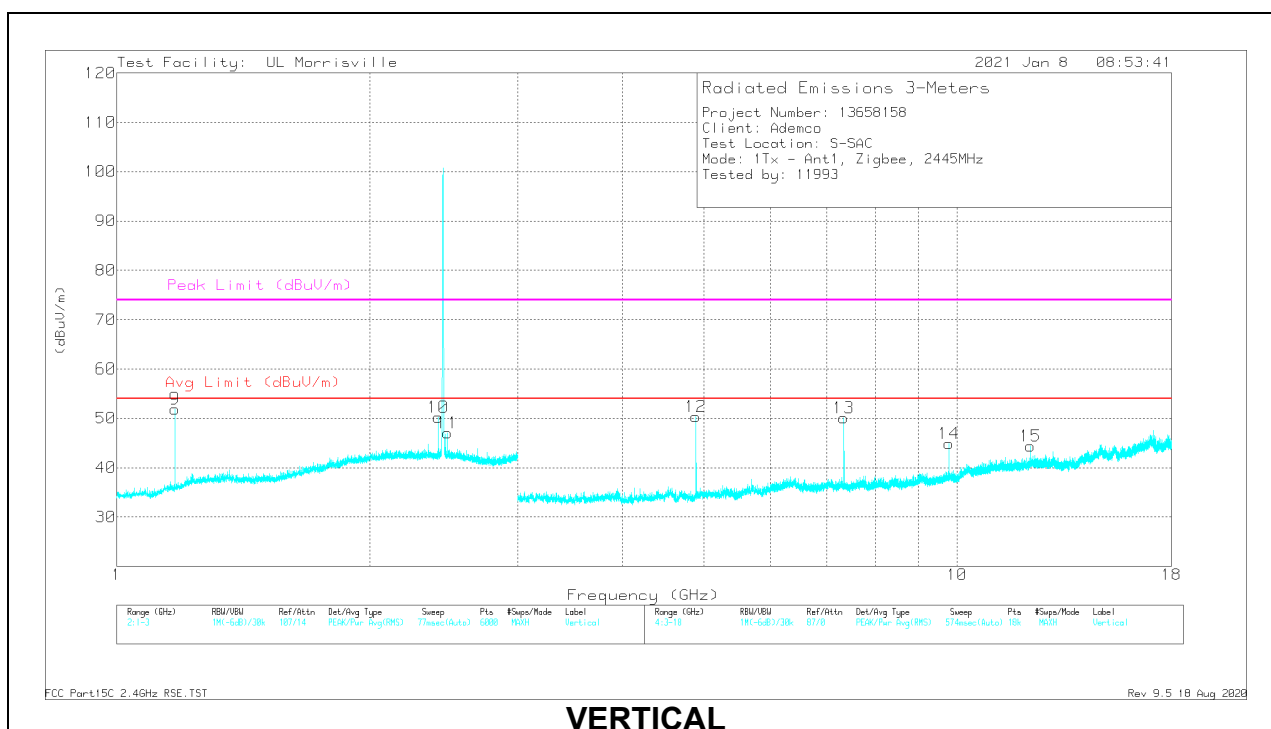
PK2 - Maximum Peak

Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL

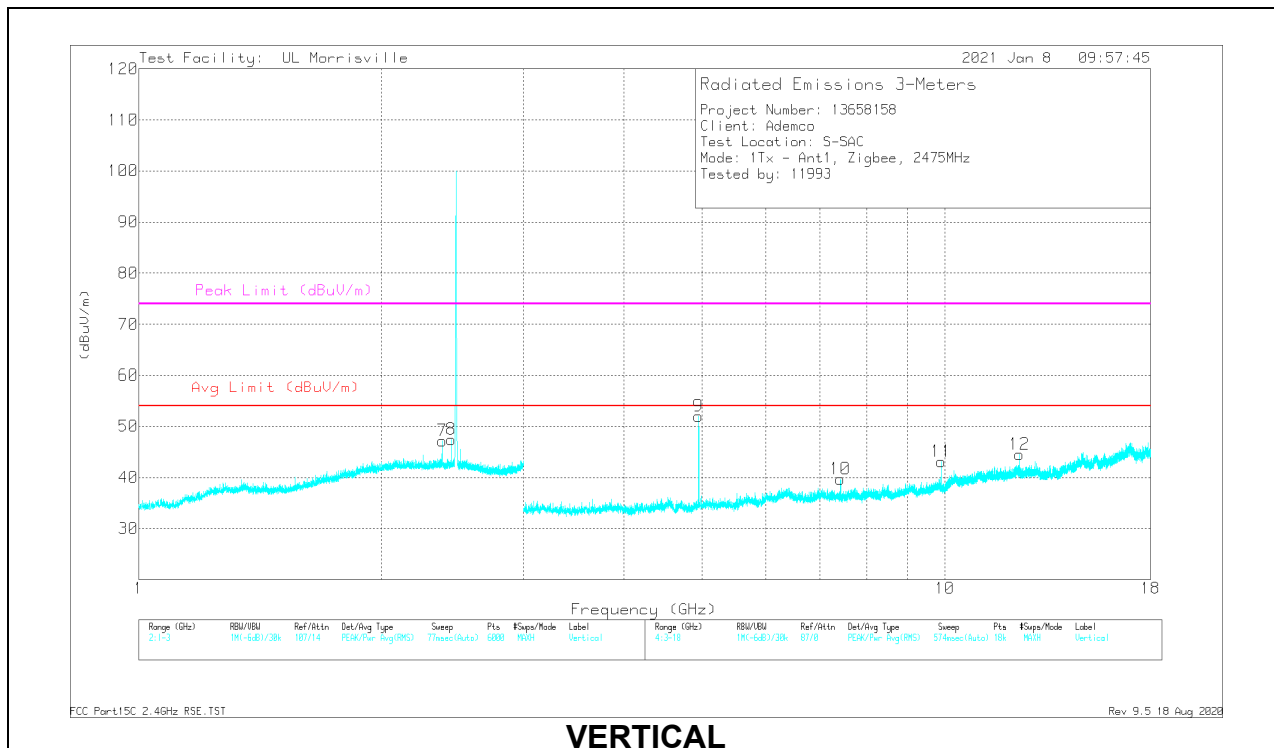
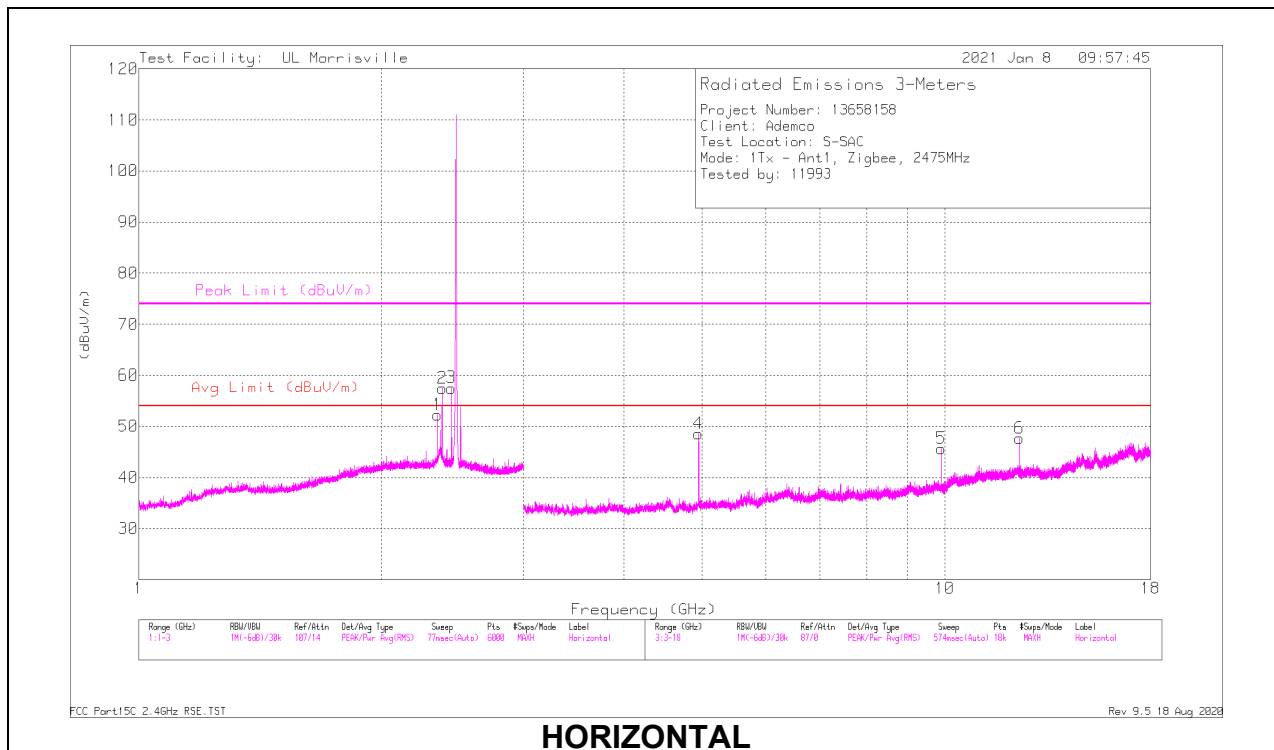


VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.34945	51.16	PK2	32.2	-23.9	0	59.46	-	-	74	-14.54	359	165	H
	*** 2.34945	51.16	PK2	32.2	-23.9	-23.1	36.36	54	-17.64	-	-	359	165	H
2	*** 2.38099	46.85	PK2	32.2	-23.9	0	55.15	-	-	74	-18.85	6	114	H
	*** 2.38099	46.85	PK2	32.2	-23.9	-23.1	32.05	54	-21.95	-	-	6	114	H
9	*** 1.1759	38.42	PK2	28.4	-23.8	0	43.02	-	-	74	-30.98	6	251	V
	*** 1.1759	38.42	PK2	28.4	-23.8	-23.1	19.92	54	-34.08	-	-	6	251	V
5	*** 4.8891	50.27	PK2	34	-30.9	0	53.37	-	-	74	-20.63	53	101	H
	*** 4.8891	50.27	PK2	34	-30.9	-23.1	30.27	54	-23.73	-	-	53	101	H
6	*** 7.33359	53.22	PK2	35.6	-27.3	0	61.52	-	-	74	-12.48	1	116	H
	*** 7.33359	53.22	PK2	35.6	-27.3	-23.1	38.42	54	-15.58	-	-	1	116	H
8	*** 12.22733	39.67	PK2	38.8	-24.3	0	54.17	-	-	74	-19.83	111	101	H
	*** 12.22733	39.67	PK2	38.8	-24.3	-23.1	31.07	54	-22.93	-	-	111	101	H
12	*** 4.89122	51.03	PK2	34	-30.9	0	54.13	-	-	74	-19.87	306	111	V
	*** 4.89122	51.03	PK2	34	-30.9	-23.1	31.03	54	-22.97	-	-	306	111	V
13	*** 7.33348	46.71	PK2	35.6	-27.3	0	55.01	-	-	74	-18.99	300	101	V
	*** 7.33348	46.71	PK2	35.6	-27.3	-23.1	31.91	54	-22.09	-	-	300	101	V
15	*** 12.22733	37.42	PK2	38.8	-24.3	0	51.92	-	-	74	-22.08	138	115	V
	*** 12.22733	37.42	PK2	38.8	-24.3	-23.1	28.82	54	-25.18	-	-	138	115	V
3	2.4129	52.43	Pk	32.2	-24.1	0	60.53	-	-	-	-	0-360	101	H
10	2.4129	42.09	Pk	32.2	-24.1	0	50.19	-	-	-	-	0-360	101	V
4	2.47691	48.47	Pk	32.4	-24.5	0	56.37	-	-	-	-	0-360	200	H
11	2.47725	39.16	Pk	32.4	-24.5	0	47.06	-	-	-	-	0-360	101	V
7	9.77788	36.44	Pk	36.8	-25.9	0	47.34	-	-	-	-	0-360	101	H
14	9.78205	33.95	Pk	36.8	-25.9	0	44.85	-	-	-	-	0-360	101	V

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.34761	48.94	PK2	32.2	-23.9	0	57.24	-	-	74	-16.76	0	165	H
	*** 2.34761	48.94	PK2	32.2	-23.9	-23.1	34.14	54	-19.86	-	-	0	165	H
2	*** 2.37863	52.85	PK2	32.2	-23.9	0	61.15	-	-	74	-12.85	358	161	H
	*** 2.37863	52.85	PK2	32.2	-23.9	-23.1	38.05	54	-15.95	-	-	358	161	H
7	*** 2.37851	47.7	PK2	32.2	-23.9	0	56	-	-	74	-18	316	344	V
	*** 2.37851	47.7	PK2	32.2	-23.9	-23.1	32.9	54	-21.1	-	-	316	344	V
4	*** 4.95109	50.5	PK2	33.9	-31	0	53.4	-	-	74	-20.6	55	103	H
	*** 4.95109	50.5	PK2	33.9	-31	-23.1	30.3	54	-23.7	-	-	55	103	H
6	*** 12.37756	39.29	PK2	38.9	-24.1	0	54.09	-	-	74	-19.91	102	114	H
	*** 12.37756	39.29	PK2	38.9	-24.1	-23.1	30.99	54	-23.01	-	-	102	114	H
9	*** 4.95115	52.83	PK2	33.9	-31	0	55.73	-	-	74	-18.27	309	115	V
	*** 4.95115	52.83	PK2	33.9	-31	-23.1	32.63	54	-21.37	-	-	309	115	V
10	*** 7.42376	39.82	PK2	35.6	-27.7	0	47.72	-	-	74	-26.28	299	101	V
	*** 7.42376	39.82	PK2	35.6	-27.7	-23.1	24.62	54	-29.38	-	-	299	101	V
12	*** 12.37278	38.02	PK2	38.9	-24	0	52.92	-	-	74	-21.08	143	111	V
	*** 12.37278	38.02	PK2	38.9	-24	-23.1	29.82	54	-24.18	-	-	143	111	V
8	2.44324	39.18	Pk	32.5	-24.2	0	47.48	-	-	-	-	0-360	101	V
3	2.44357	49.22	Pk	32.5	-24.2	0	57.52	-	-	-	-	0-360	101	H
11	9.89789	32.07	Pk	36.9	-25.8	0	43.17	-	-	-	-	0-360	101	V
5	9.90122	34.59	Pk	36.9	-25.8	0	45.69	-	-	-	-	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

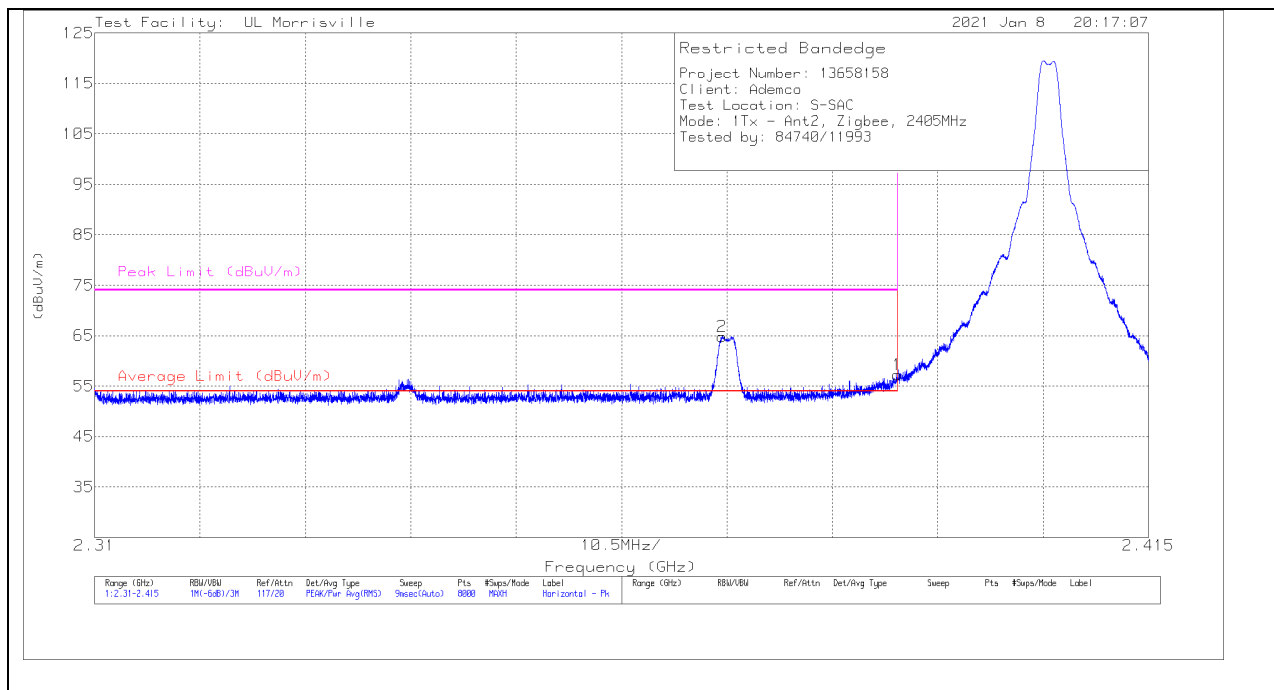
PK2 - Maximum Peak

Pk - Peak detector

11.2.2. Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



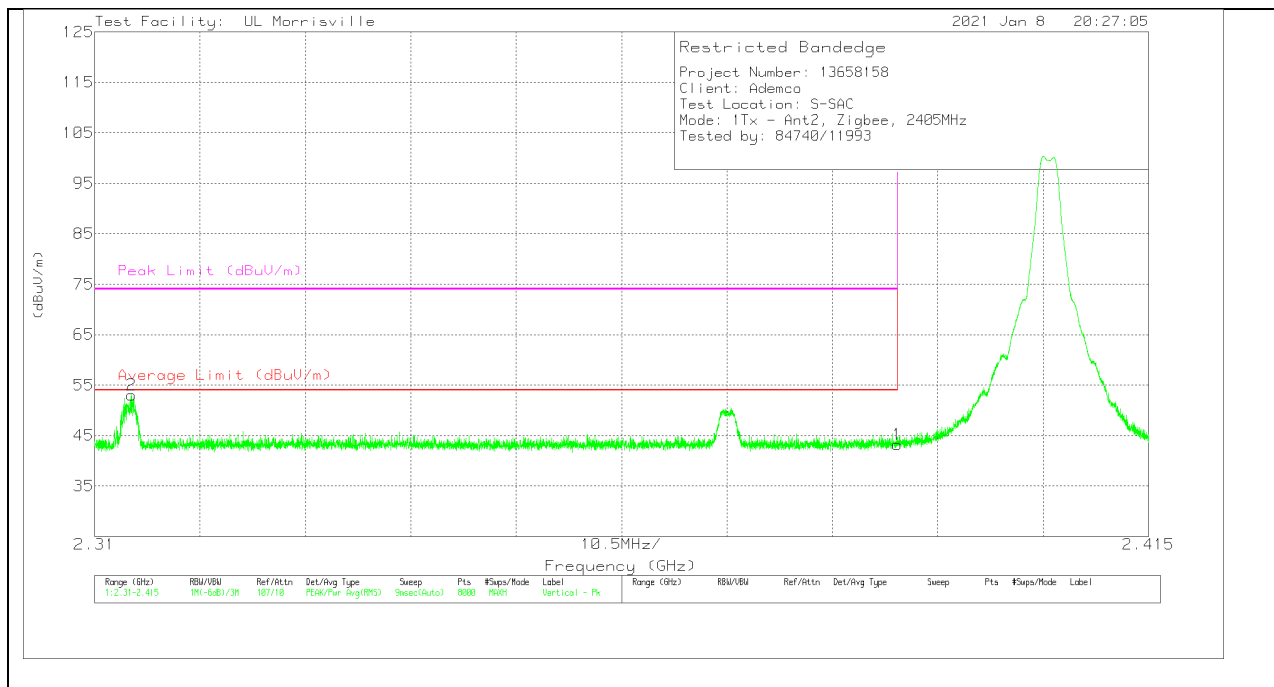
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	49.15	Pk	32.1	-24	0	57.25	-	-	74	-16.75	261	119	H
	*** 2.39	49.15	Pk	32.1	-24	-23.1	34.15	54	-19.85	-	-	261	119	H
2	*** 2.37252	56.54	Pk	32.2	-23.9	0	64.84	-	-	74	-9.16	261	119	H
	*** 2.37252	56.54	Pk	32.2	-23.9	-23.1	41.74	54	-12.26	-	-	261	119	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	35.16	Pk	32.1	-24	0	43.26	-	-	74	-30.74	39	157	V
	* ** 2.39	35.16	Pk	32.1	-24	-23.1	20.16	54	-2.94	-	-	39	157	V
2	* ** 2.31365	44.63	Pk	32	-23.6	0	53.03	-	-	74	-20.97	39	157	V
	* ** 2.31365	44.63	Pk	32	-23.6	-23.1	29.93	54	-24.07	-	-	39	157	V

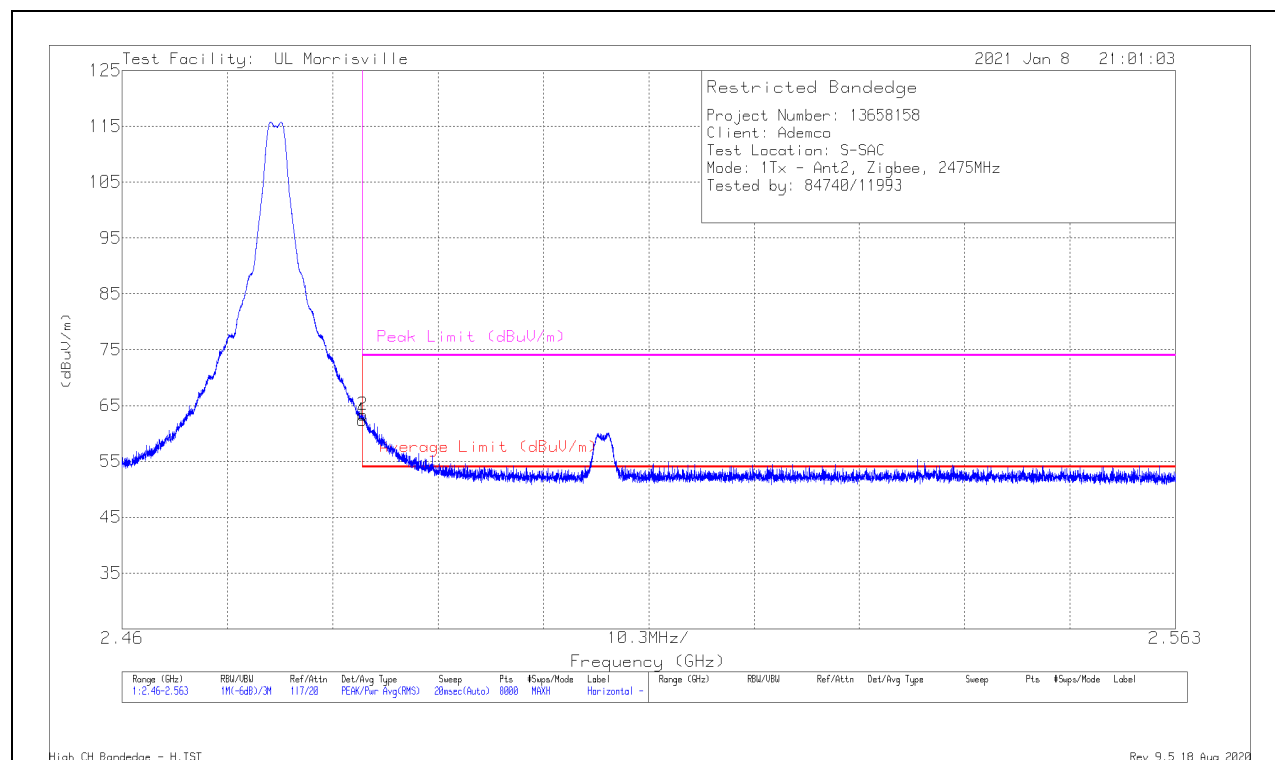
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



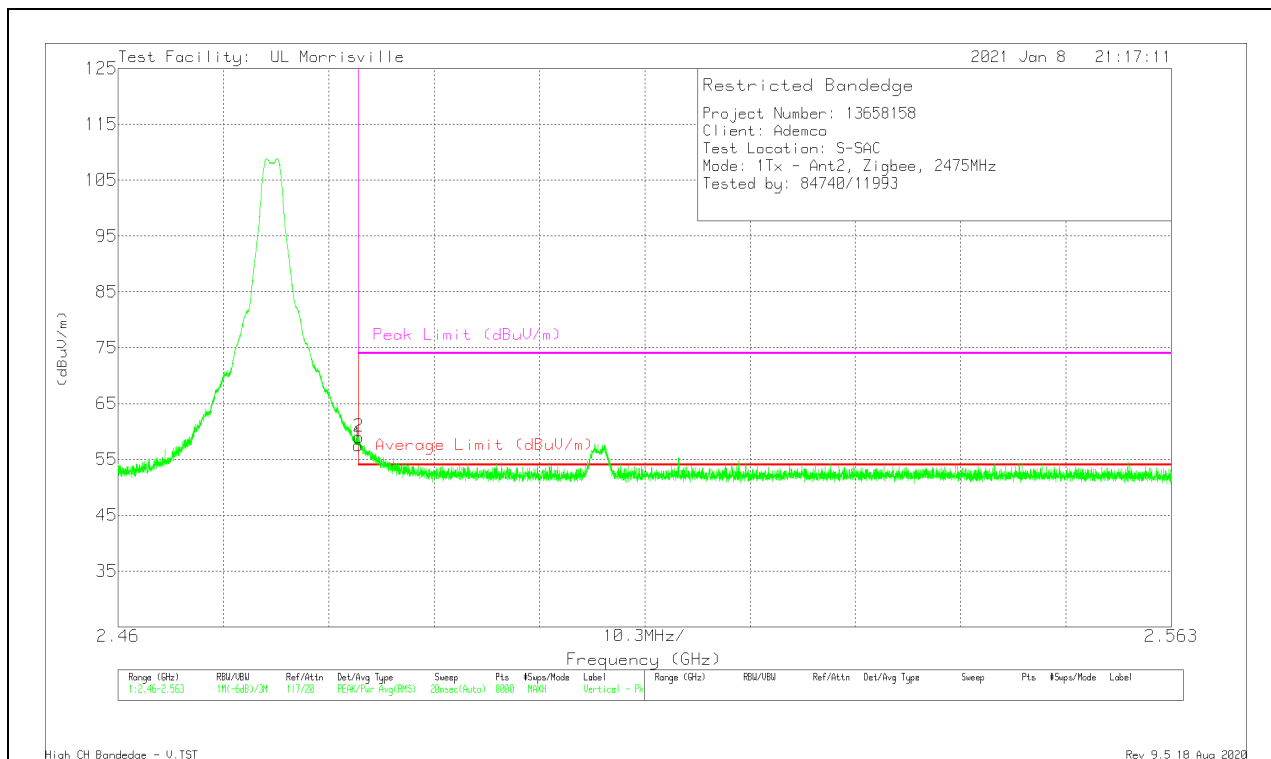
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.4835	54.38	Pk	32.4	-24.4	0	62.38	-	-	74	-11.62	259	101	H
	** 2.4835	54.38	Pk	32.4	-24.4	-23.1	39.28	54	-14.72	-	-	259	101	H
2	* ** 2.48354	55.35	Pk	32.4	-24.4	0	63.35	-	-	74	-10.65	259	101	H
	* ** 2.48354	55.35	Pk	32.4	-24.4	-23.1	40.25	54	-13.75	-	-	259	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.4835	49.52	Pk	32.4	-24.4	0	57.52	-	-	74	-16.48	337	318	V
	* ** 2.4835	49.52	Pk	32.4	-24.4	-23.1	34.42	54	-19.58	-	-	337	318	V
2	* ** 2.48353	51.02	Pk	32.4	-24.4	0	59.02	-	-	74	-14.98	337	318	V
	* ** 2.48353	51.02	Pk	32.4	-24.4	-23.1	35.92	54	-18.08	-	-	337	318	V

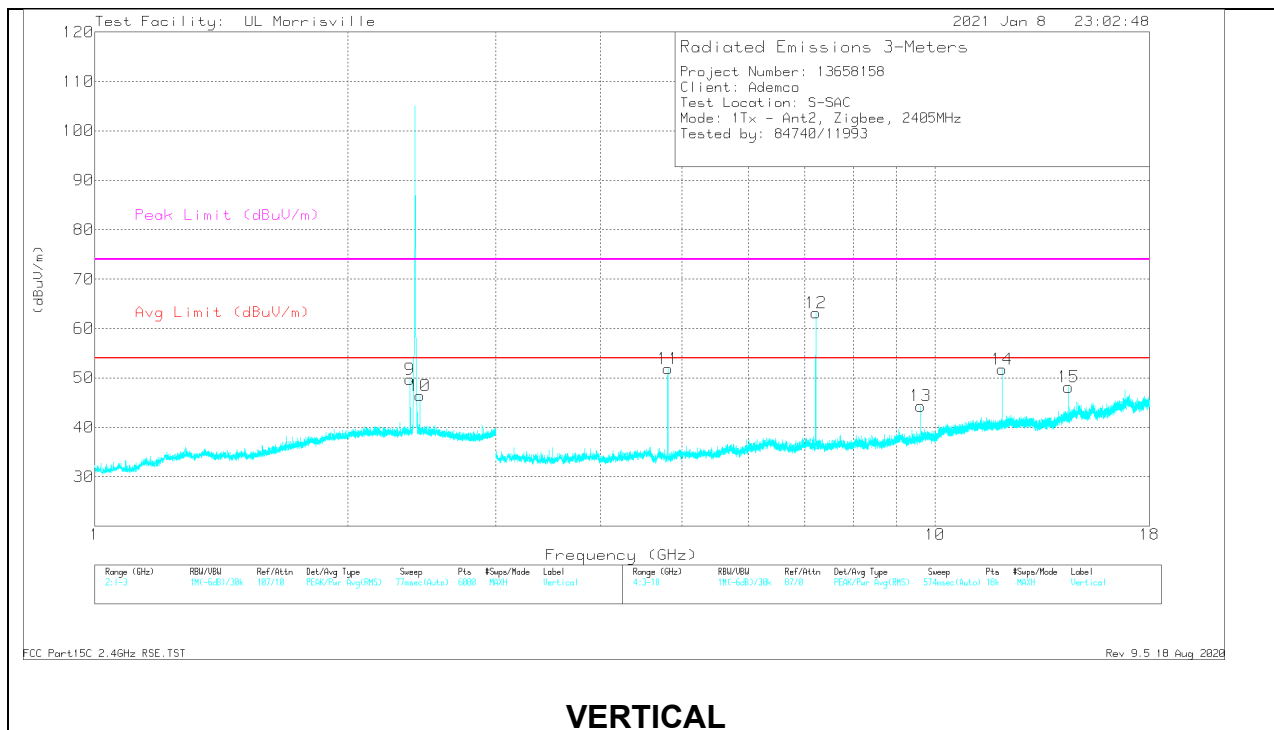
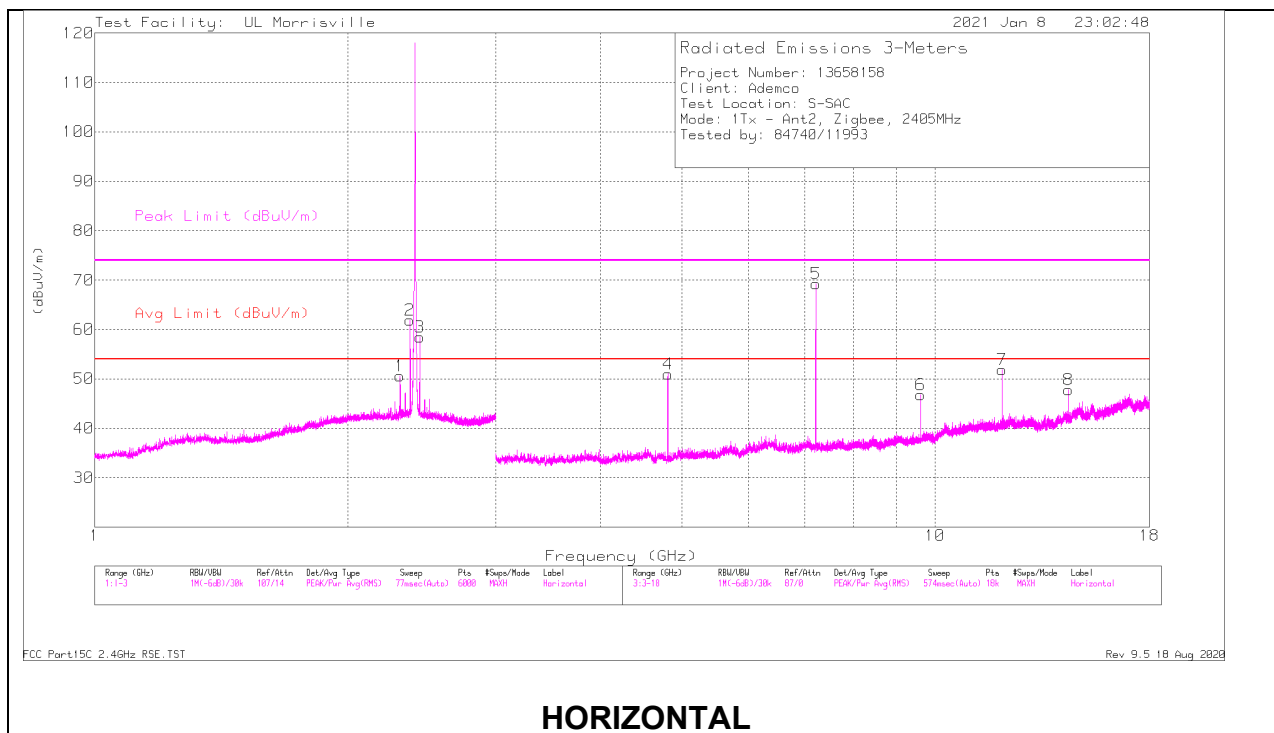
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* ** 2.37349	56.16	PK2	32.2	-23.9	0	64.46	-	-	74	-9.54	261	139	H
	* ** 2.37349	56.16	PK2	32.2	-23.9	-23.1	41.36	54	-12.64	-	-	261	139	H
9	* ** 2.37254	51.55	PK2	32.2	-23.9	0	59.85	-	-	74	-14.15	294	349	V
	* ** 2.37254	51.55	PK2	32.2	-23.9	-23.1	36.75	54	-17.25	-	-	294	349	V
4	*** 4.80914	51.79	PK2	34	-30.8	0	54.99	-	-	74	-19.01	303	117	H
	* ** 4.80914	51.79	PK2	34	-30.8	-23.1	31.89	54	-22.11	-	-	303	117	H
7	* ** 12.02781	42.72	PK2	38.7	-24	0	57.42	-	-	74	-16.58	73	104	H
	* ** 12.02781	42.72	PK2	38.7	-24	-23.1	32.32	54	-19.68	-	-	73	104	H
11	* ** 4.80904	51.89	PK2	34	-30.9	0	54.99	-	-	74	-19.01	313	101	V
	* ** 4.80904	51.89	PK2	34	-30.9	-23.1	31.89	54	-22.11	-	-	313	101	V
14	* ** 12.02247	41.21	PK2	38.7	-24.1	0	55.81	-	-	74	-18.19	187	104	V
	* ** 12.02247	41.21	PK2	38.7	-24.1	-23.1	32.72	54	-21.29	-	-	187	104	V
1	2.30922	42.21	Pk	32	-23.6	0	50.61	-	-	-	-	0-360	101	H
10	2.43691	38.26	Pk	32.4	-24.2	0	46.46	-	-	-	-	0-360	200	V
3	2.43724	50.23	Pk	32.4	-24.2	0	58.43	-	-	-	-	0-360	101	H
5	7.21607	61.61	Pk	35.6	-27.9	0	69.31	-	-	-	-	0-360	101	H
12	7.21607	55.41	Pk	35.6	-27.9	0	63.11	-	-	-	-	0-360	101	V
13	9.6212	34.02	Pk	36.6	-26.3	0	44.32	-	-	-	-	0-360	101	V
6	9.62204	36.41	Pk	36.6	-26.2	0	46.81	-	-	-	-	0-360	101	H
8	14.42731	33.29	Pk	39.4	-24.9	0	47.79	-	-	-	-	0-360	101	H
15	14.42731	33.63	Pk	39.4	-24.9	0	48.13	-	-	-	-	0-360	101	V

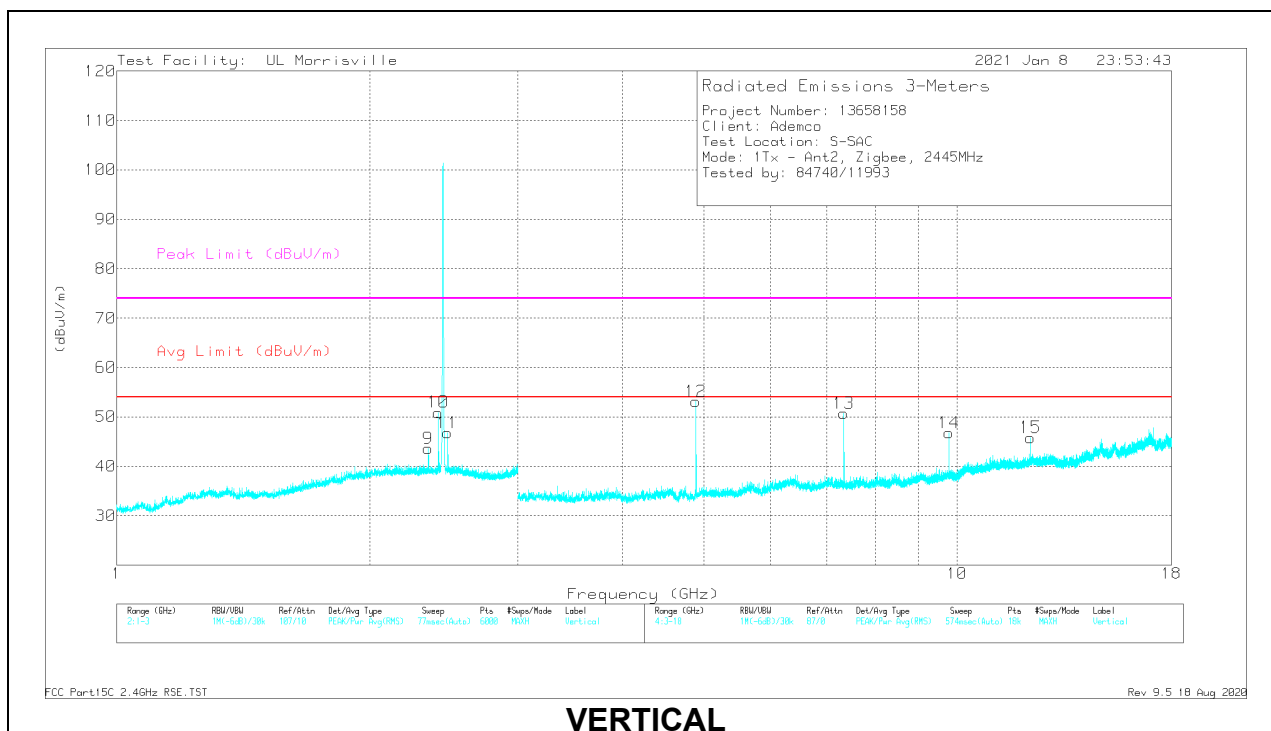
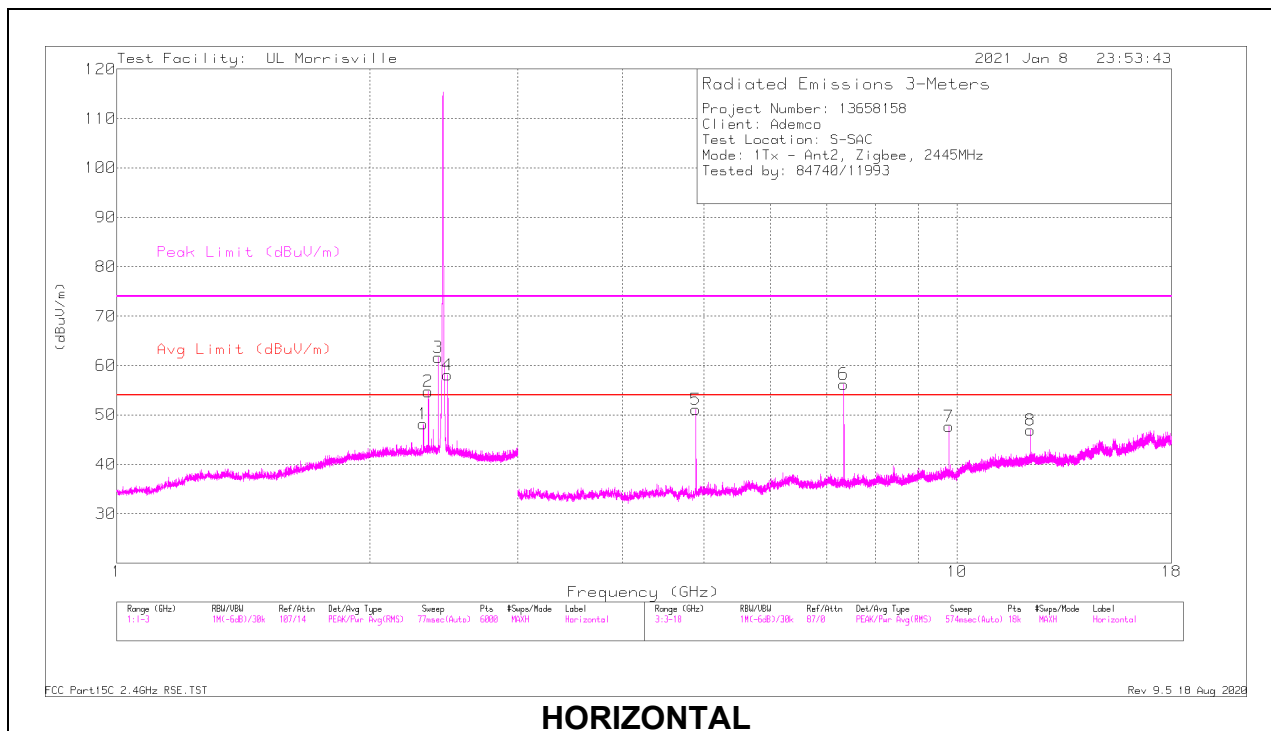
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

Pk - Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.3174	45.6	PK2	32	-23.7	0	53.9	-	-	74	-20.1	256	123	H
	* ** 2.3174	45.6	PK2	32	-23.7	-23.1	30.8	54	-23.2	-	-	256	123	H
2	* ** 2.3486	49.87	PK2	32.2	-23.9	0	58.17	-	-	74	-15.83	257	143	H
	* ** 2.3486	49.87	PK2	32.2	-23.9	-23.1	35.07	54	-18.93	-	-	257	143	H
9	* ** 2.34952	42.87	PK2	32.2	-23.9	0	51.17	-	-	74	-22.83	276	355	V
	* ** 2.34952	42.87	PK2	32.2	-23.9	-23.1	28.07	54	-25.93	-	-	276	355	V
5	* ** 4.89113	51.78	PK2	34	-30.9	0	54.88	-	-	74	-19.12	4	101	H
	* ** 4.89113	51.78	PK2	34	-30.9	-23.1	31.78	54	-22.22	-	-	4	101	H
6	* ** 7.33359	51.83	PK2	35.6	-27.3	0	60.13	-	-	74	-13.87	10	101	H
	* ** 7.33359	51.83	PK2	35.6	-27.3	-23.1	37.03	54	-16.97	-	-	10	101	H
8	* ** 12.22263	39.31	PK2	38.8	-24.2	0	53.91	-	-	74	-20.09	105	115	H
	* ** 12.22263	39.31	PK2	38.8	-24.2	-23.1	30.81	54	-23.19	-	-	105	115	H
12	* ** 4.89108	53.11	PK2	34	-30.9	0	56.21	-	-	74	-17.79	313	102	V
	* ** 4.89108	53.11	PK2	34	-30.9	-23.1	33.11	54	-20.89	-	-	313	102	V
13	* ** 7.33365	46.93	PK2	35.6	-27.3	0	55.23	-	-	74	-18.77	20	102	V
	* ** 7.33365	46.93	PK2	35.6	-27.3	-23.1	32.13	54	-21.87	-	-	20	102	V
15	* ** 12.22757	38.2	PK2	38.8	-24.3	0	52.7	-	-	74	-21.3	150	110	V
	* ** 12.22757	38.2	PK2	38.8	-24.3	-23.1	29.6	54	-24.4	-	-	150	110	V
3	2.41324	53.59	Pk	32.2	-24.1	0	61.69	-	-	-	-	0-360	101	H
10	2.41324	42.82	Pk	32.2	-24.1	0	50.92	-	-	-	-	0-360	101	V
4	2.47725	50.23	Pk	32.4	-24.5	0	58.13	-	-	-	-	0-360	199	H
11	2.47725	38.86	Pk	32.4	-24.5	0	46.76	-	-	-	-	0-360	101	V
7	9.78121	36.78	Pk	36.8	-25.9	0	47.68	-	-	-	-	0-360	101	H
14	9.78121	35.95	Pk	36.8	-25.9	0	46.85	-	-	-	-	0-360	101	V

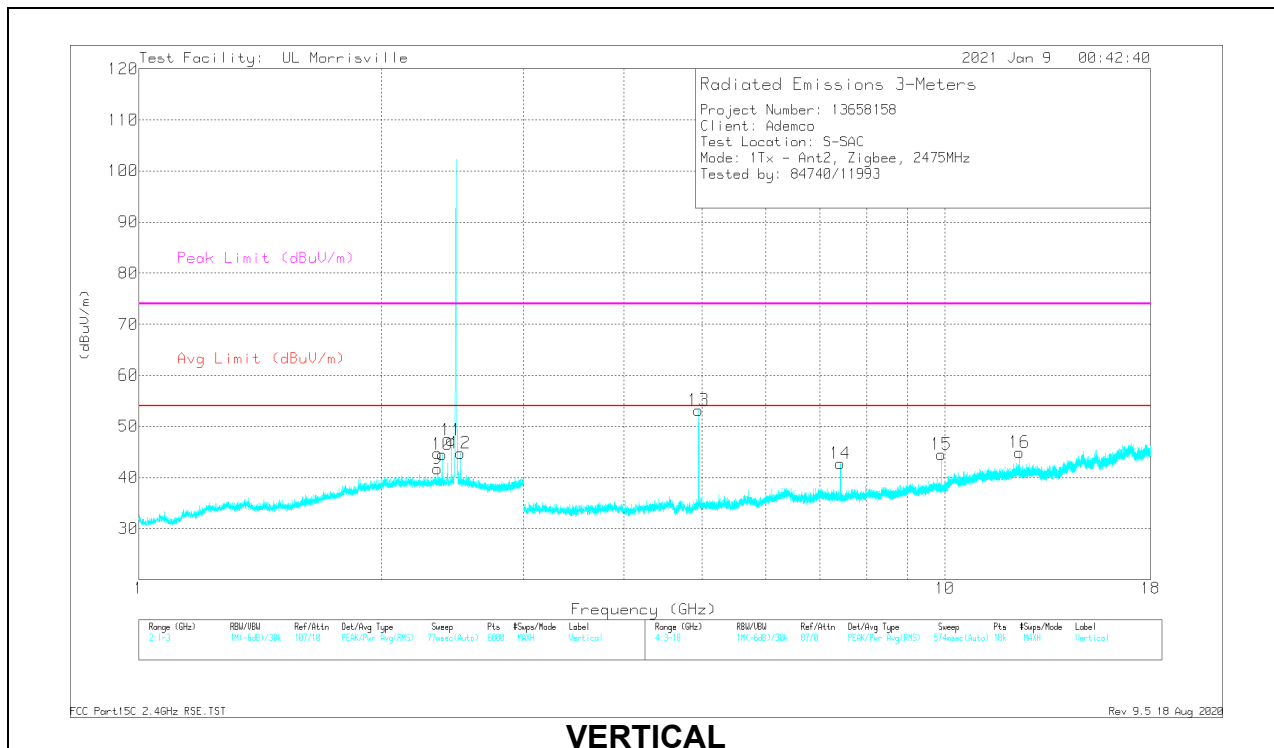
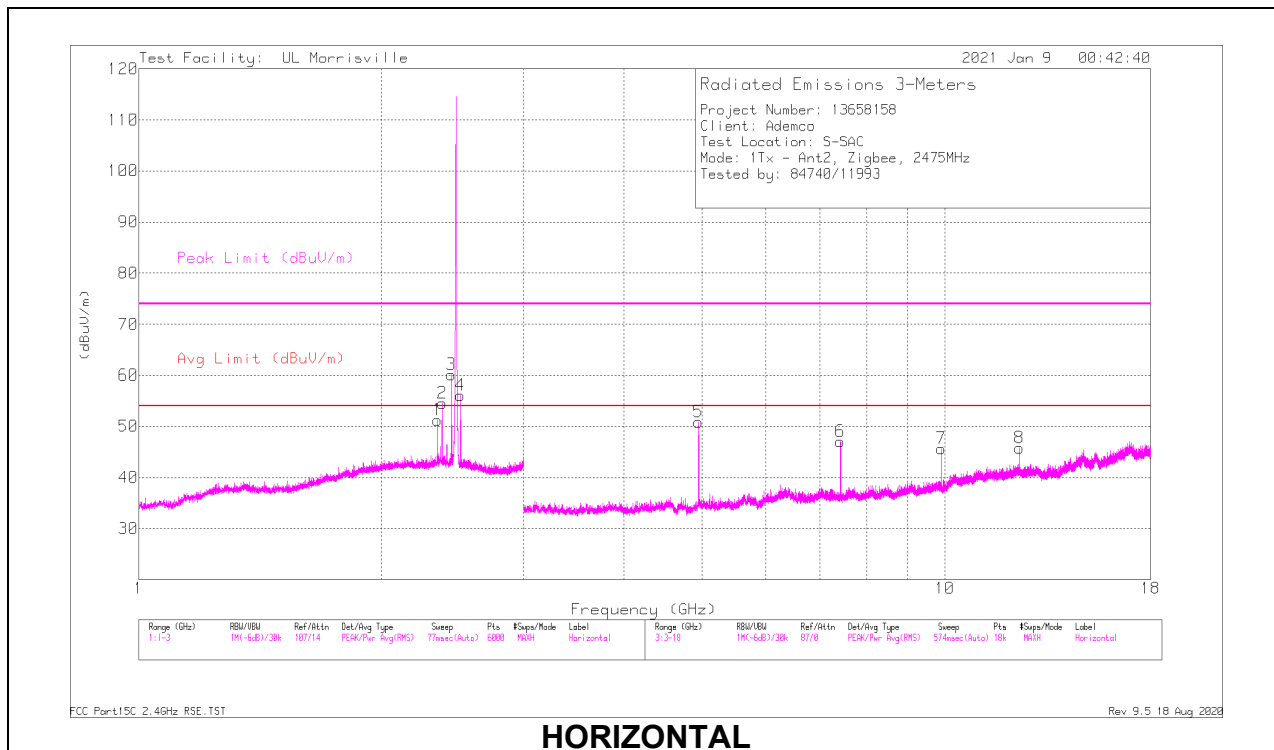
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.34659	47.34	PK2	32.2	-23.9	0	55.64	-	-	74	-18.36	261	142	H
	** 2.34659	47.34	PK2	32.2	-23.9	-23.1	32.54	54	-21.46	-	-	261	142	H
2	*** 2.37855	50.87	PK2	32.2	-23.9	0	59.17	-	-	74	-14.83	262	139	H
	*** 2.37855	50.87	PK2	32.2	-23.9	-23.1	36.07	54	-17.93	-	-	262	139	H
4	** 2.50652	52.62	PK2	32.4	-24.7	0	60.32	-	-	74	-13.68	259	111	H
	** 2.50652	52.62	PK2	32.4	-24.7	-23.1	37.22	54	-16.78	-	-	259	111	H
9	*** 2.34681	42.44	PK2	32.2	-23.9	0	50.74	-	-	74	-23.26	284	361	V
	*** 2.34681	42.44	PK2	32.2	-23.9	-23.1	27.64	54	-26.36	-	-	284	361	V
10	*** 2.37959	46.62	PK2	32.2	-23.9	0	54.92	-	-	74	-19.08	310	351	V
	*** 2.37959	46.62	PK2	32.2	-23.9	-23.1	31.82	54	-22.18	-	-	310	351	V
12	** 2.50648	47.17	PK2	32.4	-24.7	0	54.87	-	-	74	-19.13	325	397	V
	** 2.50648	47.17	PK2	32.4	-24.7	-23.1	31.77	54	-22.23	-	-	325	397	V
5	*** 4.95109	52	PK2	33.9	-31	0	54.9	-	-	74	-19.1	5	118	H
	*** 4.95109	52	PK2	33.9	-31	-23.1	31.8	54	-22.20	-	-	5	118	H
6	*** 7.42374	44.31	PK2	35.6	-27.7	0	52.21	-	-	74	-21.79	17	103	H
	*** 7.42374	44.31	PK2	35.6	-27.7	-23.1	29.11	54	-24.89	-	-	17	103	H
8	*** 12.37774	37.64	PK2	38.9	-24.1	0	52.44	-	-	74	-21.56	108	107	H
	*** 12.37774	37.64	PK2	38.9	-24.1	-23.1	29.34	54	-24.66	-	-	108	107	H
13	*** 4.95112	53.92	PK2	33.9	-31	0	56.82	-	-	74	-17.18	308	102	V
	*** 4.95112	53.92	PK2	33.9	-31	-23.1	33.72	54	-20.28	-	-	308	102	V
14	*** 7.42355	40.96	PK2	35.6	-27.7	0	48.86	-	-	74	-25.14	22	102	V
	*** 7.42355	40.96	PK2	35.6	-27.7	-23.1	25.76	54	-28.24	-	-	22	102	V
16	*** 12.37777	35.85	PK2	38.9	-24.1	0	50.65	-	-	74	-23.35	185	103	V
	*** 12.37777	35.85	PK2	38.9	-24.1	-23.1	27.55	54	-26.45	-	-	185	103	V
11	2.44291	39.03	Pk	32.5	-24.2	0	47.33	-	-	-	-	0-360	101	V
3	2.44324	51.87	Pk	32.5	-24.2	0	60.17	-	-	-	-	0-360	101	H
15	9.89789	33.36	Pk	36.9	-25.8	0	44.46	-	-	-	-	0-360	101	V
7	9.90205	34.57	Pk	36.9	-25.8	0	45.67	-	-	-	-	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

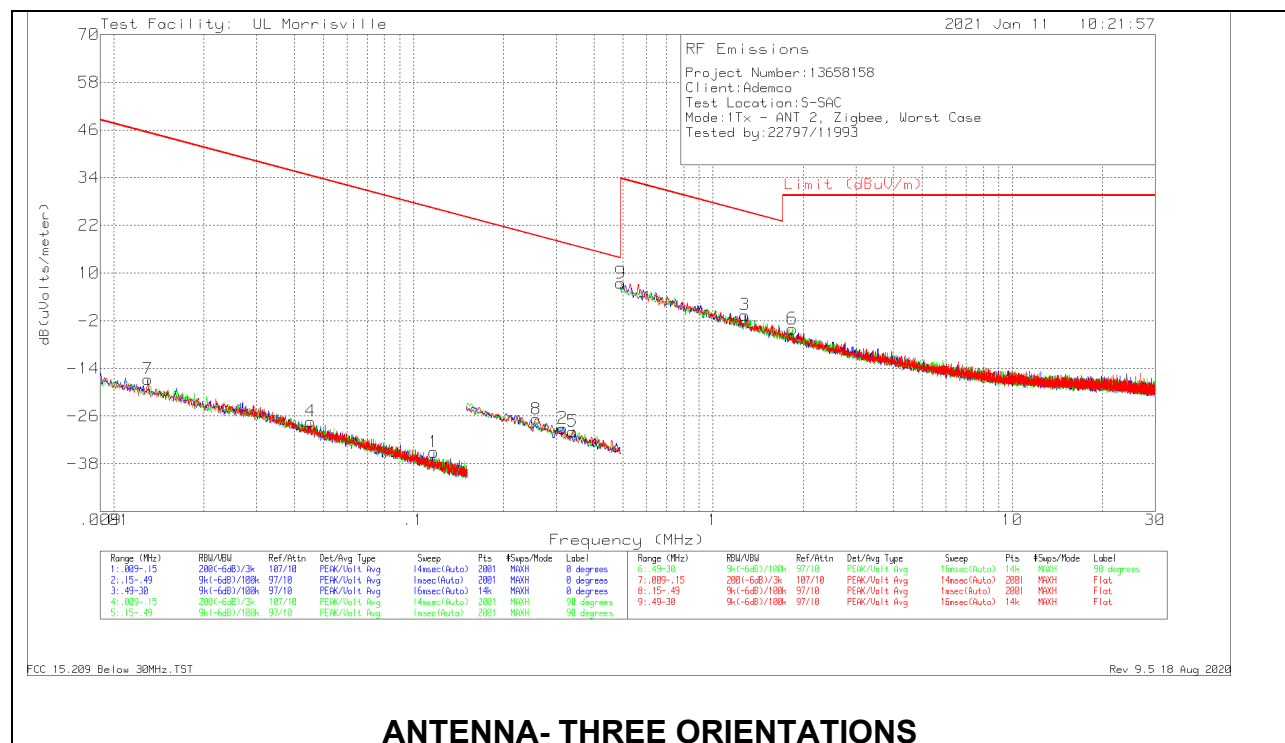
Pk - Peak detector

11.3. WORST CASE BELOW 30MHZ

Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).

The below 30 MHz limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency 12.98kHz resulted in a level of -16.68 dBuV/m, which is equivalent to $-16.68-51.5 = -68.18$ dBuA/m, which has the same margin, -62.02 dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



ANTENNA- THREE ORIENTATIONS

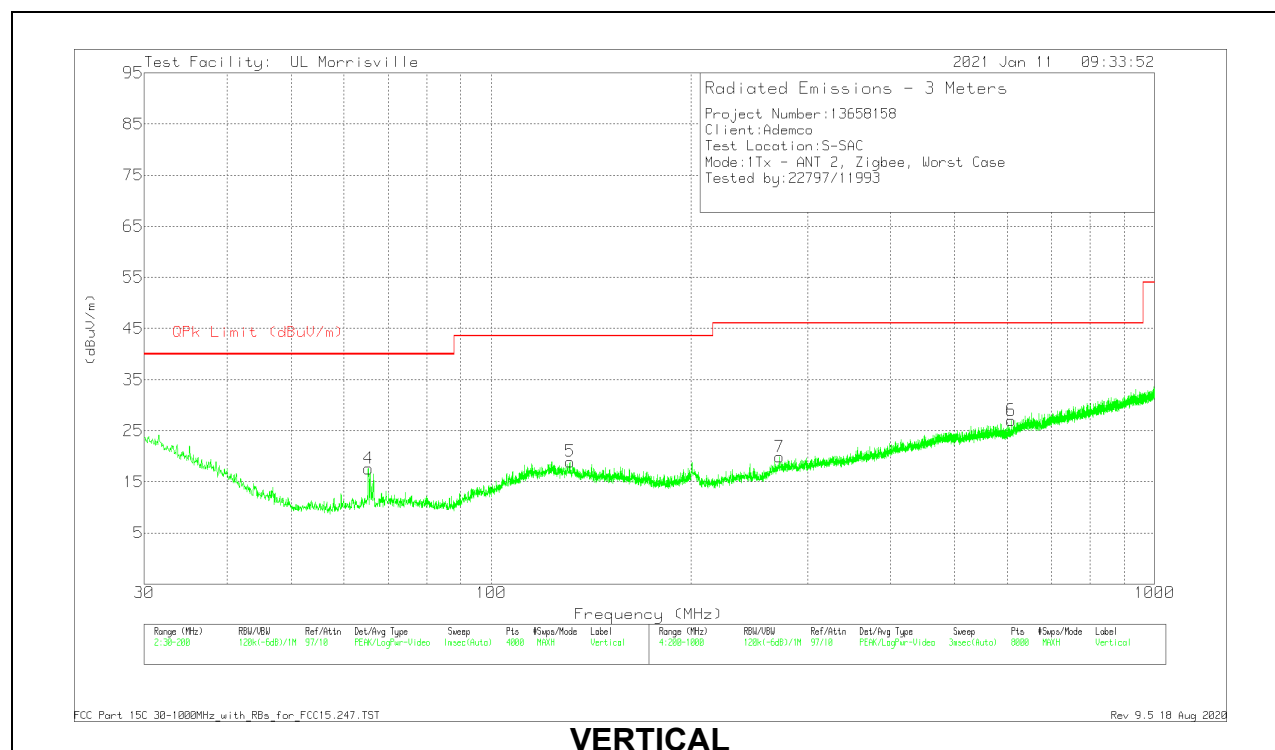
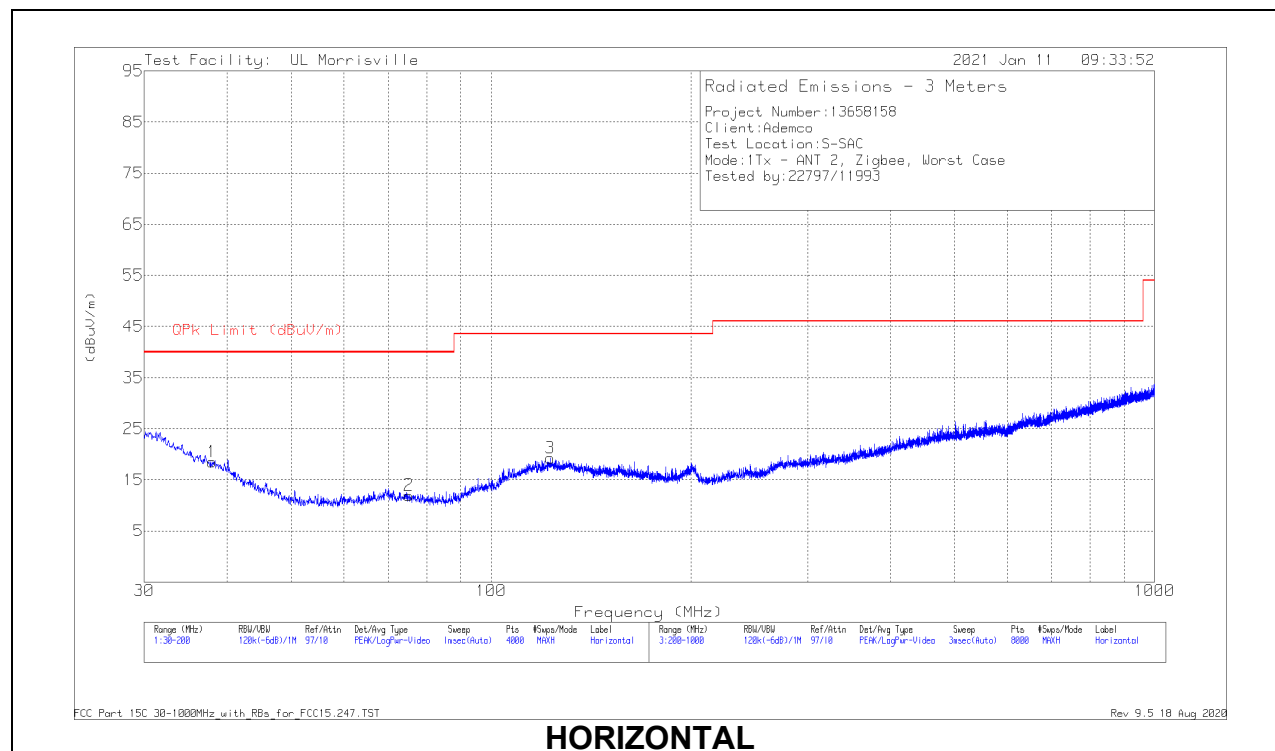
Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Qp/Avg Limit (dBuV/m)	FCC 15.209 Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
7	.01298	46.52	Pk	16.7	.1	-80	-16.68	45.34	65.34	-62.02	0-360
4	.04542	40.72	Pk	11.9	.1	-80	-27.28	34.46	64.46	-61.74	0-360
1	.11685	33.97	Pk	10.9	.1	-80	-35.03	26.25	46.25	-61.28	0-360
8	.25736	42.47	Pk	10.7	.1	-80	-26.73	19.39	39.39	-46.12	0-360
2	.31507	40.12	Pk	10.7	.1	-80	-29.08	17.64	37.64	-46.72	0-360
5	.34049	39.37	Pk	10.7	.1	-80	-29.83	16.96	36.96	-46.79	0-360
9	.49211	36.59	Pk	10.8	.1	-40	7.49	33.76	-	-26.27	0-360
3	1.2805	28.27	Pk	11	.2	-40	-.53	25.46	-	-25.99	0-360
6	1.84123	24.67	Pk	11.1	.2	-40	-4.03	29.54	-	-33.57	0-360

Pk - Peak detector

11.4. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 37.9921	28.61	Pk	21.3	-31.4	18.51	40	-21.49	0-360	299	H
2	* ** 75.1892	28.55	Pk	14.3	-30.9	11.95	40	-28.05	0-360	400	H
3	* ** 122.7165	29.46	Pk	20.1	-30.3	19.26	43.52	-24.26	0-360	200	H
5	* ** 131.6013	29.35	Pk	19.8	-30.2	18.95	43.52	-24.57	0-360	101	V
6	* ** 608.2531	29.81	Pk	24.7	-27.5	27.01	46.02	-19.01	0-360	200	V
7	* ** 272.0094	29.58	Pk	19.3	-29	19.88	46.02	-26.14	0-360	200	V
4	65.3266	34.51	Pk	14.1	-31	17.61	40	-22.39	0-360	101	V

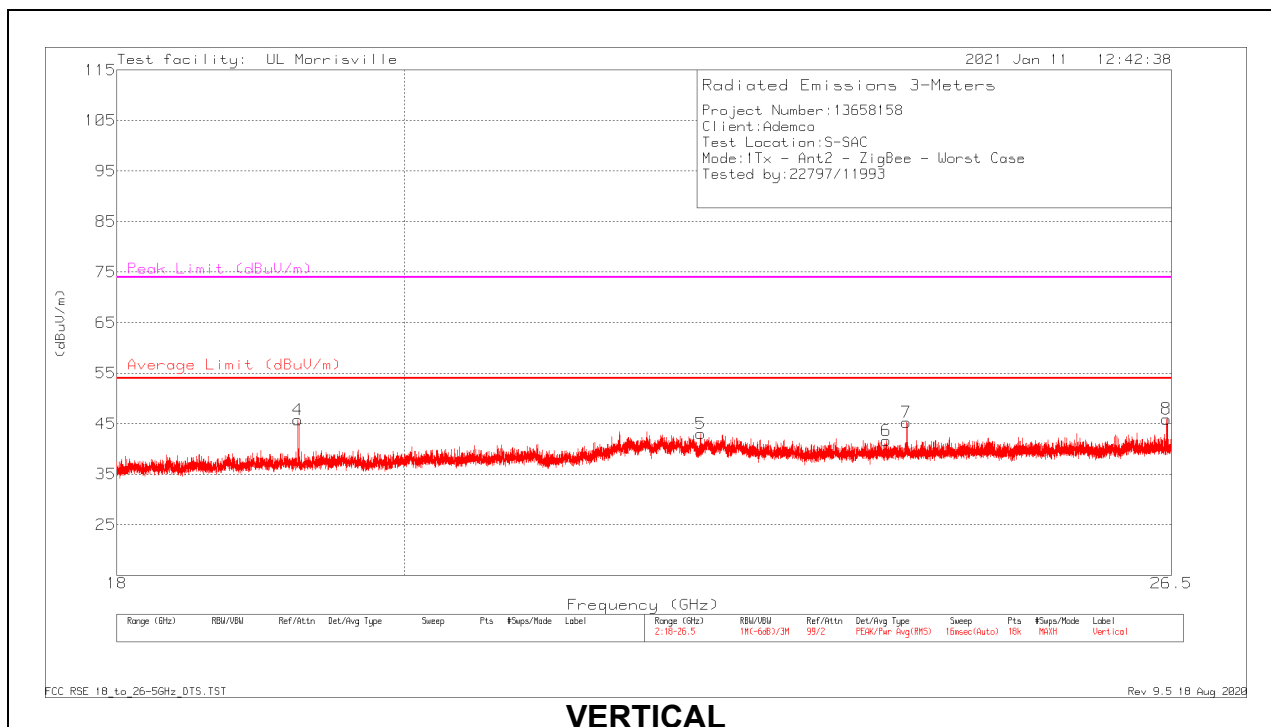
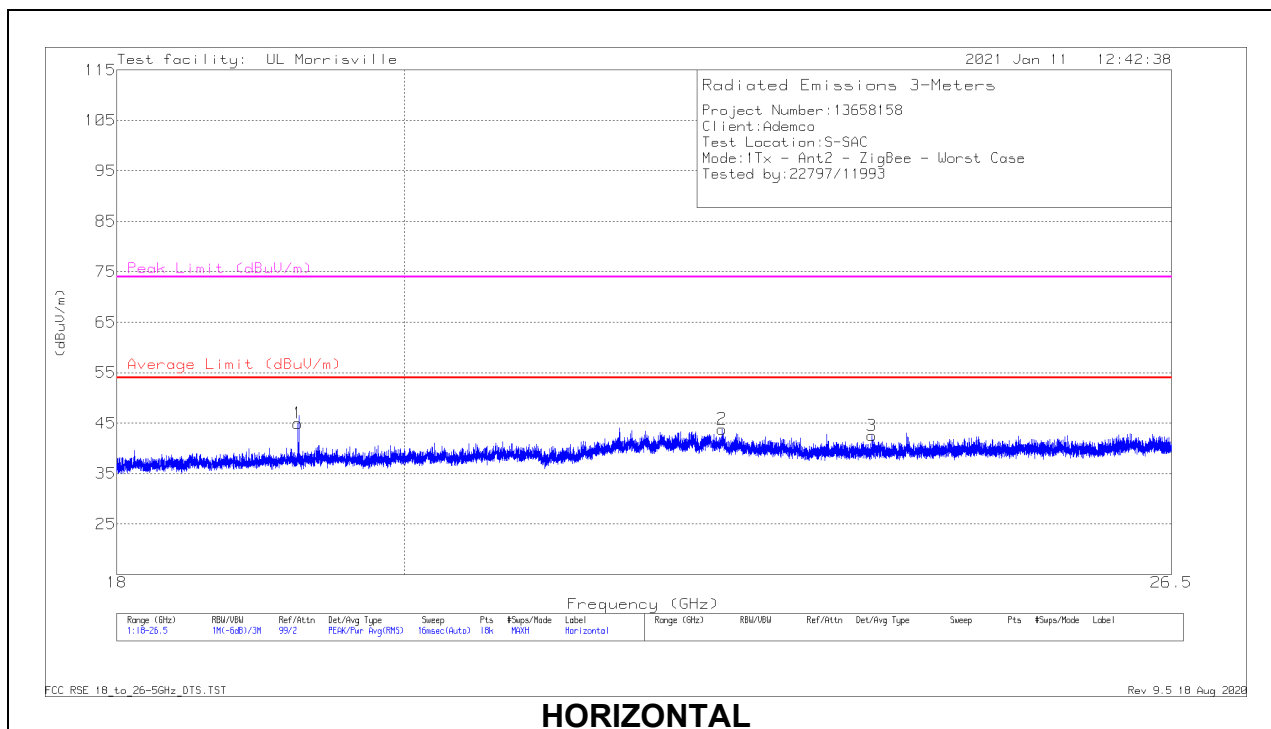
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

11.5. WORST CASE 18-26GHz

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



18 – 26 GHz Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 19.23682	50.65	Pk	33.4	-39.1	44.95	54	-9.05	74	-29.05	0-360	101	H
2	* ** 22.47361	46.23	Pk	36.5	-38.9	43.83	54	-10.17	74	-30.17	0-360	150	H
3	* ** 23.74348	46.33	Pk	34.8	-38.6	42.53	54	-11.47	74	-31.47	0-360	150	H
4	* ** 19.23611	51.48	Pk	33.4	-39.1	45.78	54	-8.22	74	-28.22	0-360	101	V
5	* ** 22.29651	45.9	Pk	36.5	-39.4	43	54	-11	74	-31	0-360	101	V
6	* ** 23.86721	45.27	Pk	34.9	-38.5	41.67	54	-12.33	74	-32.33	0-360	101	V
7	24.04666	48.72	Pk	34.9	-38.4	45.22	54	-8.78	74	-28.78	0-360	101	V
8	26.45088	47.74	Pk	35.6	-37.4	45.94	54	-8.06	74	-28.06	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

12. SETUP PHOTOS

Please refer to R13658158-EP1 for setup photos

END OF TEST REPORT